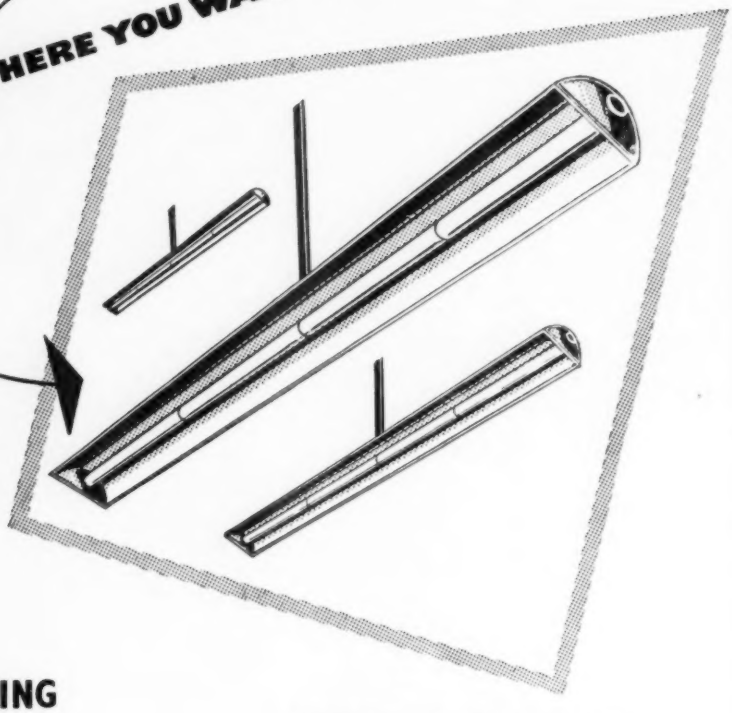
THE ARCHITECT & BUILDING NEWS

1 APRIL 1959 VOL. 215 NO. 13 ONE SHILLING WEEKLY

- **BOWATER HOUSE, KNIGHTSBRIDGE**
- **HOUSING IN NAIROBI**
- **CURRENT MARKET PRICES AND MEASURED RATES**

PUBLISHED IN LONDON SINCE 1854

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THE NEW ELSTEIN INFRA-RED SYSTEM REVOLUTIONISES INDUSTRIAL HEATING

The Elstein Infra-Red system makes it possible to heat large, draughty industrial buildings efficiently. Heat can be localised so that it can be directed to the area in which men are working, making it unnecessary to heat large unoccupied areas. Moreover, since none of the heat is wastefully absorbed by the atmosphere, it is not affected by air currents or extractor fans.

Elstein sealed ceramic elements are proof against chemical fumes, gases and moisture and so have an exceptionally long life. Guaranteed 10,000 burning hours. The Elstein system is easy and economical to install and operation costs are remarkably low. The overhead installation keeps floor areas clear and thus reduces FIRE and accident hazards.

Our technologists will gladly submit plans and estimates without obligation, giving wattage of elements, position of units, method of wiring, etc., to meet individual requirements, assisting the architect in any way possible.





ELSTEIN

P & R ELECTRICAL (LONDON) LTD.

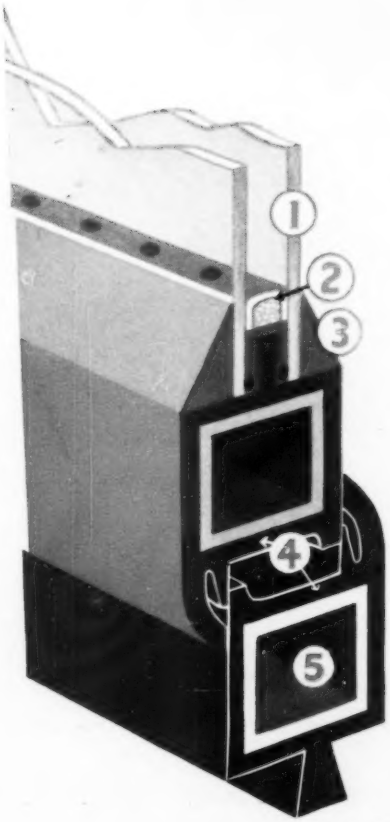
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IDEAL MIPOLAM
A product of one of Britain's Largest Manufacturers of metal windows

An outstanding installation of MIPOLAM WINDOWS



IDEAL MIPOLAM

(British Pat. 779278)

The first and only Plastic Window with hollow steel core for rigidity of construction. Available in a wide range of light-fast colours—eliminating the costliest of all items—maintenance. Not affected by atmospheric or corrosive attack. Effective draughtproofing by built-in sealing fins.

1. **Double glazing, incorporating special glazing compounds with 'lifelong' life.**
2. **Aluminium grid filled with moisture absorbent compound.**
3. **Plastic glazing beads.**
4. **Ideal Mipolam plastic profiles with integral anti-draught fins.**
5. **Electrically welded hollow steel core sections.**

THE BUILDING CENTRE USE THE CENTRE 26 STORE STREET W.C.1

IDEAL CASEMENTS (Reading) LTD.

READING, ENGLAND. Tel.: 63211 (10 lines)

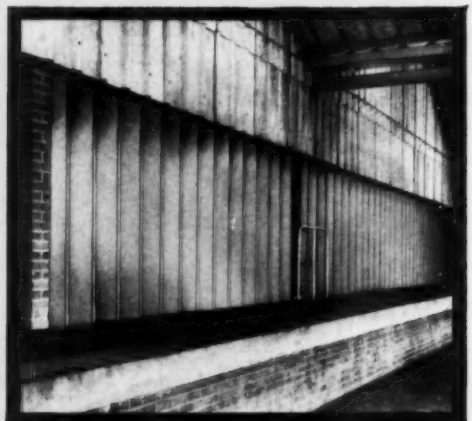
London Office:
4a King Street, St. James, London, S.W.1. Tel.: TRAfalgar 3321

Bristol Office:
3 King Square, Bristol, 2. Tel.: 27657

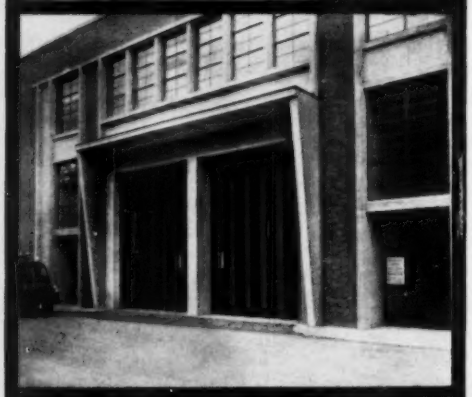
A

BOLTON

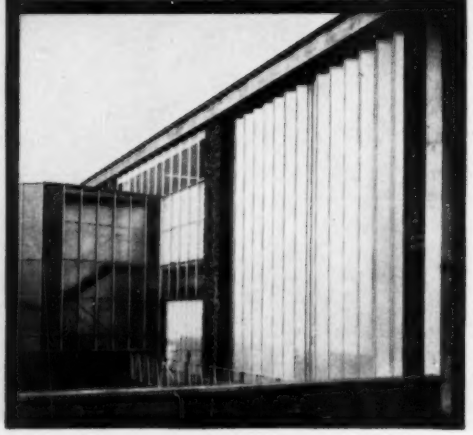
COLLAPSIBLE SHUTTER DOORS



1



2



3

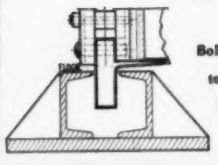
The illustrations show how versatile the Bolton Patent Shutter Door really is and installations everywhere are giving lasting trouble-free service. The doors are craftsman built from tested materials to a design which has never been bettered and hand or power operation may be had for any situation. Some of the details of the design and reasons for the popularity of Bolton Patent Shutter Doors will be seen from the diagrams.

1. Two hand operated doors fitted to a loading bay for the British Oxygen Co. Ltd., Carlisle.
2. Two electrically operated doors at Metropolitan-Vickers Electrical Co. Ltd., Manchester.
3. One pair of electrically operated doors at a test bed for the Bristol Aeroplane Co.

The illustration right shows a partly bunched Bolton Patent Shutter Door at Onehunga War Memorial Swimming Pool, New Zealand.

For full details write now for our comprehensive Catalogue No. AB306

Bottom Track



This is purely a location guide since Bolton Patent Shutter Doors are entirely top hung. The bold outline indicates the bottom guide piece which supports the heavily sherardised leaves.

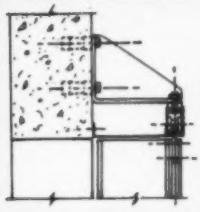
BOLTON GATE COMPANY

FOR EVERY TYPE OF OPENING



Sectional Door Plan

This sectional plan is of a Bolton Patent Shutter Door in its bunched position. Heavily sherardised shutter leaves are curled round ¾" dia. wire reinforcement and are connected by full height bronze or alloy hinging strips. Steel pickets are at the rear side.



Top Track Fixing

This detail of the ideal fixing shows a box-track suspended from the inside face of the lintel allowing the door to bunch clear of the opening. Other arrangements can be made to suit your particular needs.

LIMITED BOLTON LANCASHIRE *The BIG name in doors*

Branches at Belfast, Birmingham, Bristol, Dublin, Liverpool, London, Manchester, Newcastle-on-Tyne.

dm BG 306



RECTANGULAR HOLLOW SECTIONS

R.H. Sections, having flat sides, eliminate the need for special shaping of component structural members prior to welding. Any straight-cut R.H. Section or tube will fit accurately against them, whether square-on or at an angle, and, moreover, lugs of various kinds produced from tube or bar are easily attached.
Welding is simple and no bevelling is necessary.

SIZES. 16 standard sizes of hot-rolled R.H. Sections are available, each in two thicknesses; they range from $1\frac{3}{8}$" square to 5" x $2\frac{1}{8}$". Several sections have matching dimensions and this is of advantage in the production of neat fabricated structures. The $1\frac{7}{8}$" square R.H.S., for example, matches the short sides of a $3\frac{5}{8}$" by $1\frac{7}{8}$" R.H.S.; these matching dimensions are made clear in our pamphlet.

Welded steelwork using R.H. Sections alone, or in conjunction with tubes, is completely sealed; thus only the outside requires painting and there are no recesses to trap dirt or moisture.

Our subsidiary, Tubewrights Ltd., of 25 Buckingham Gate, London, S.W.1, is willing to advise on or quote for any welded sub-assemblies or complete units in R.H.S., in tubes, or in a combination of both.

R.H. Sections are sold in 21 ft. lengths in standard bundles and are stocked at S & L warehouses throughout the country.

Pamphlet giving full dimensions, properties and prices will be sent on application to:

Stewarts and Lloyds Ltd

STRUCTURAL STEEL DEPARTMENT, BROAD ST. CHAMBERS, BIRMINGHAM, 1

PROBLEM WALL

This problem wall could be in a hospital, a laboratory, a canteen or any of a hundred other situations where a tough and hygienic surface is absolutely necessary. In many cases, glazed tiling has to be ruled out on the grounds of expense and it is here that TYLEX, the tile-like wall finish comes into its own. TYLEX is brush-applied, with no joints to harbour dirt or bacteria and the hard gloss retains its brilliance despite really hard wear. TYLEX can be applied to old or new wall surfaces and happily withstands frequent washing down.
We shall be glad to send you a specification sheet with details of the wide TYLEX colour range based on B.S.2660.



TYLEX

Brush-applied tile-like finish for walls

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Telephone : Colindale 7223
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THE ARCHITECT
and Building News,
1 April 1960



at Bowater House, Knightsbridge, London. Architects: Guy Morgan and Partners F/FRIBA. General Contractors: Taylor Woodrow Construction Ltd.

by FENNING

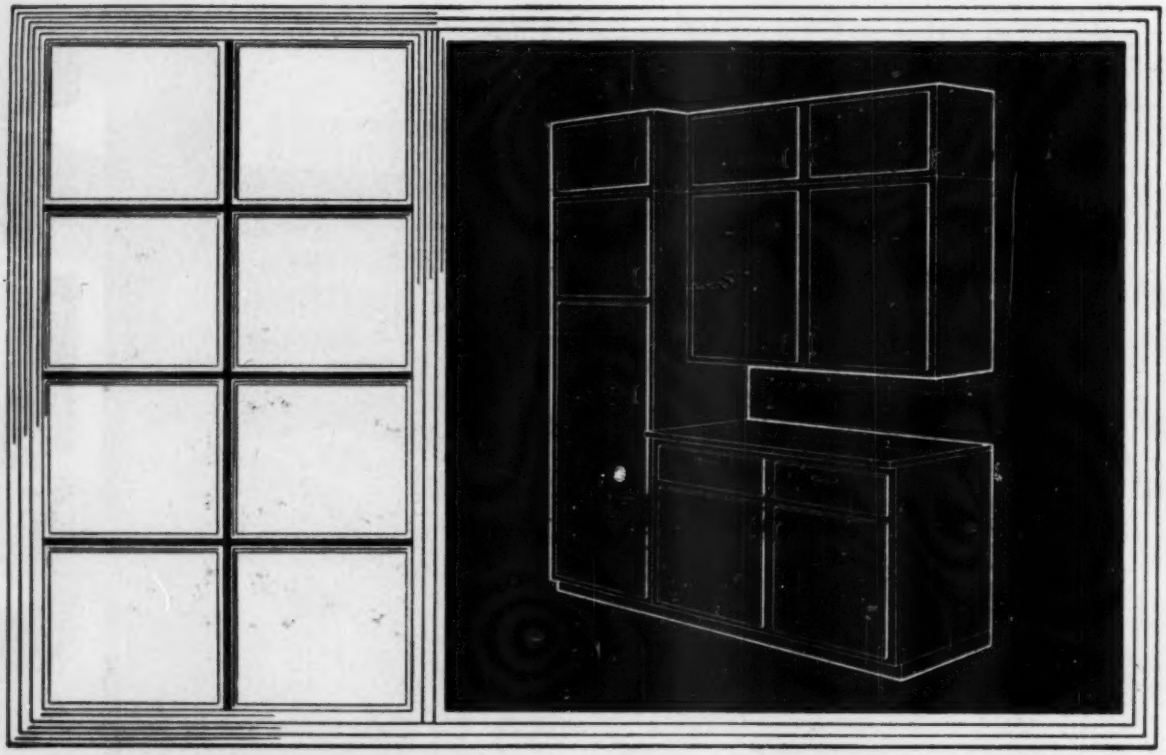
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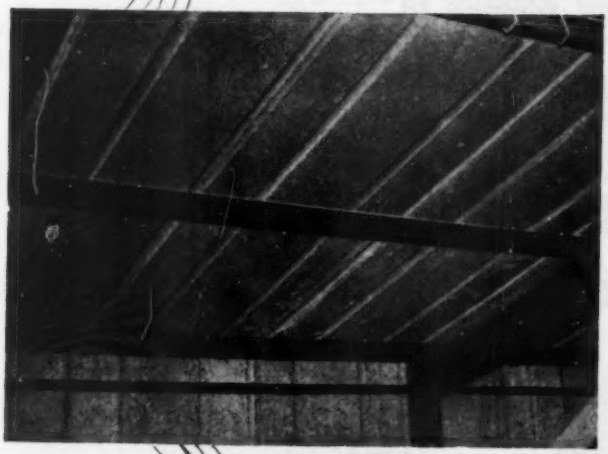
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High resistance to thermal transmission...



Major Six

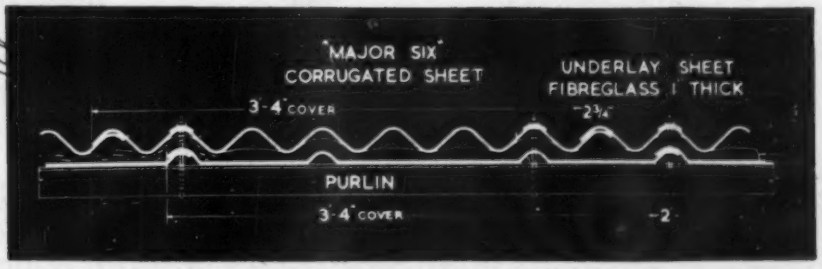
DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



Easily fixed with hook bolts and washers. "Major six" Double Cladding Insulation complies with the requirements of "Thermal Insulation Industrial Buildings" Bill.

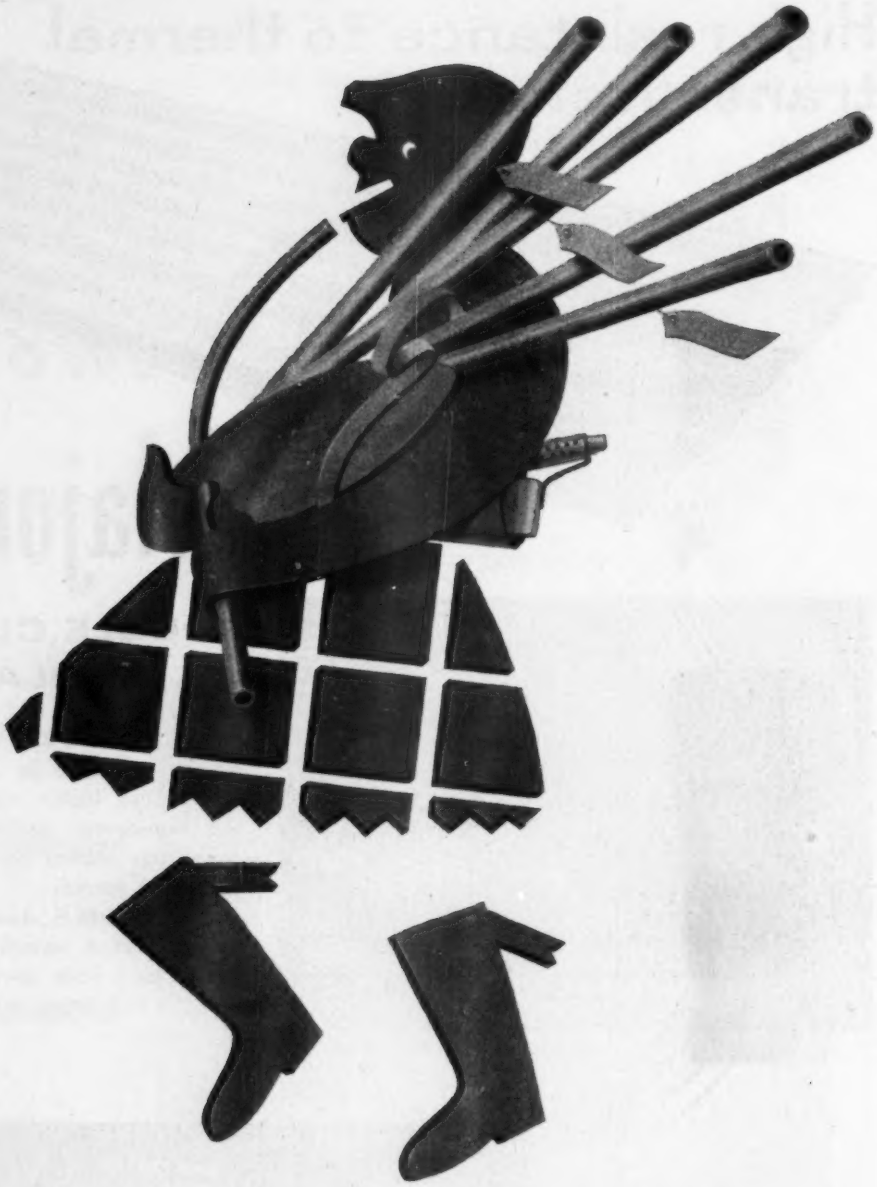
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Works at: MELDRETH, Nr. Royston, Herts.

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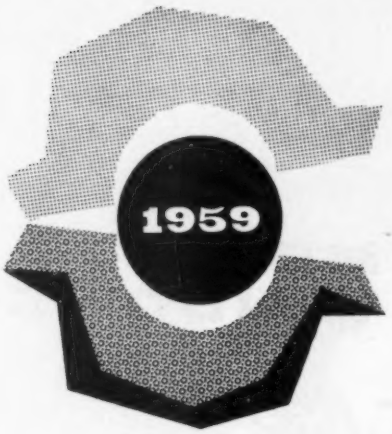
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First-class permanent plumbing needs good sound lead sheet and pipe.
And the people who supply nothing *but* good sound lead sheet and pipe are BLM.
All lead, including chemical quality, coming from the BLM works is
laboratory controlled to the appropriate British Standards specification
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Tel: Whitehall 5772 · *Works:* Welwyn Garden City, Herts. *Also:* Warrington, Lancs.

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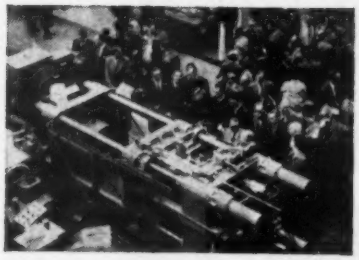
the greatest international display of plastics materials, equipment and products ever presented under one roof

international plastics exhibition and convention



GRAND, NATIONAL AND EMPIRE HALLS

OLYMPIA, 17-27 JUNE, 1959



The INTERNATIONAL PLASTICS EXHIBITION at Olympia, London, 17-27 June, will provide a complete up-to-the-minute picture of plastics progress in the industries of the world.
Thousands of exhibits from some 15 countries will combine to present the newest plastics materials, the most up-to-date equipment and a comprehensive range of industrial and domestic finished products. Here you can talk plastics chemistry, mechanics and merchandising with experts from many countries—see plastics machinery in action—gather new product ideas and new manufacturing methods—study new techniques. Do not miss this vitally important event.

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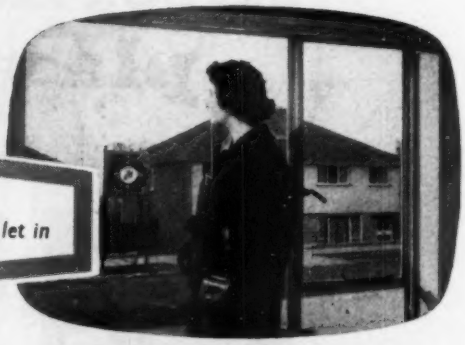
T.W.W.

(Television Wales and the West)

CHANNEL 10

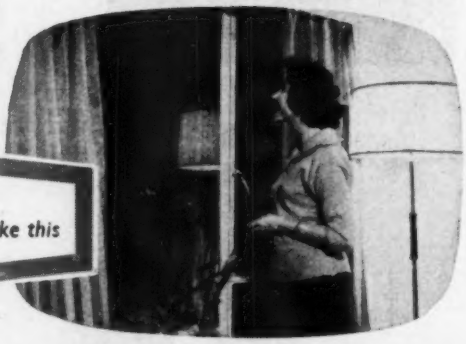
Although John Williams do not normally sell their windows direct to the public, they yet felt that this exciting new medium—television—could give valuable support to architects and builders by fostering a climate of opinion favourable to the use of metal windows, and Jonwindows in particular.

As the first metal windows to be advertised on TV, Jonwindows are likely to win a large increase of public acceptance.



STILLS FROM THE TV SPOTS





JOHN WILLIAMS & SONS (CARDIFF) LTD · EAST MOORS ROAD · CARDIFF

a step forward in the finish of builders' ironmongery



From now onwards this attractive stove-painted French Grey will replace Black on Kenrick Builders' Ironmongery. The new K-Grey finish brings no increase in prices, and in future where no special finish is specified articles will be supplied in K-Grey.

the new **'k'** *grey finish.....*

It is the outcome of modern developments in paints which have produced finishes which are superior to the old-fashioned Black in appearance, adhesion, protection and suitability as undercoats for subsequent painting when required.

KENRICK

grey

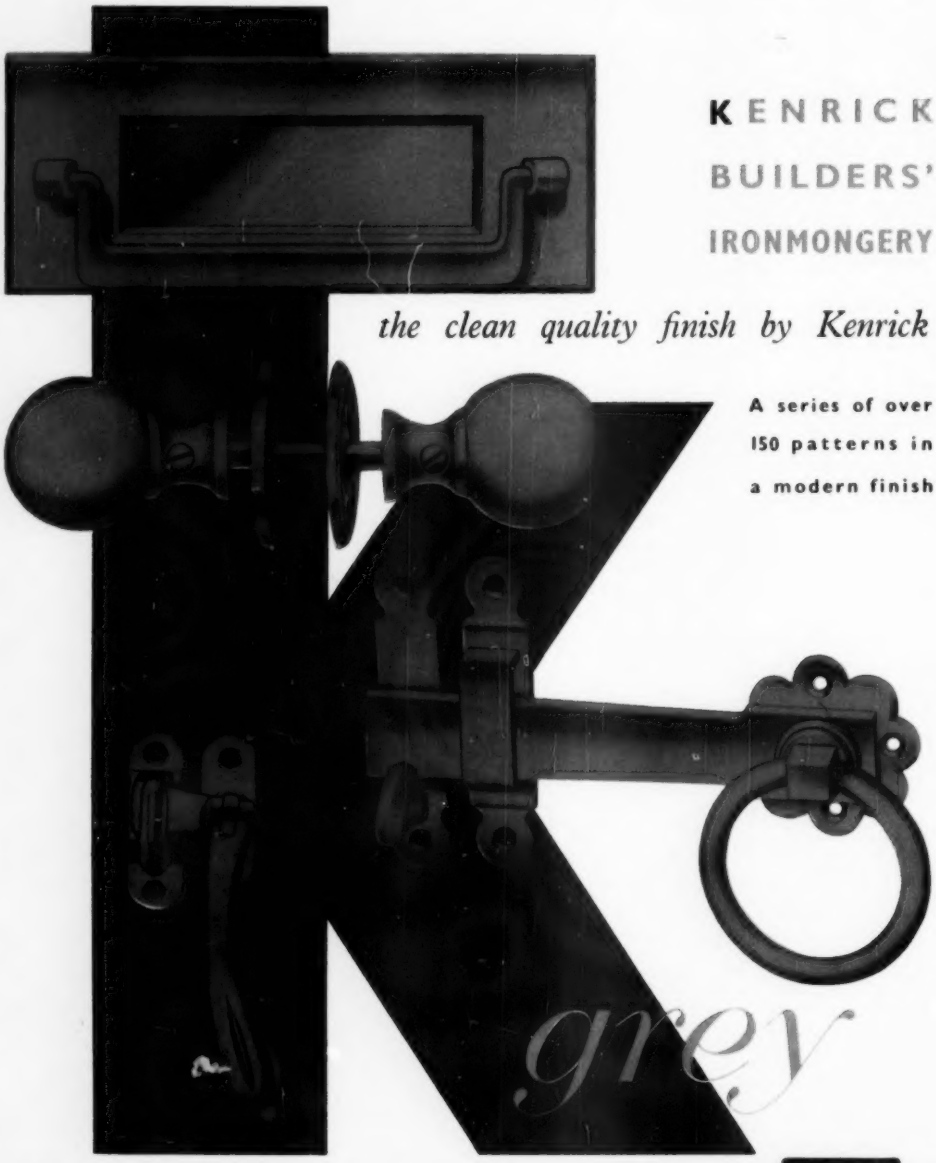
ARCHIBALD KENRICK & SONS LIMITED

West Bromwich, Staffs.

Established 1791

GUARANTEED **KENRICK** PRODUCTS

introducing the new **'k'** *grey*



KENRICK
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the clean quality finish by Kenrick

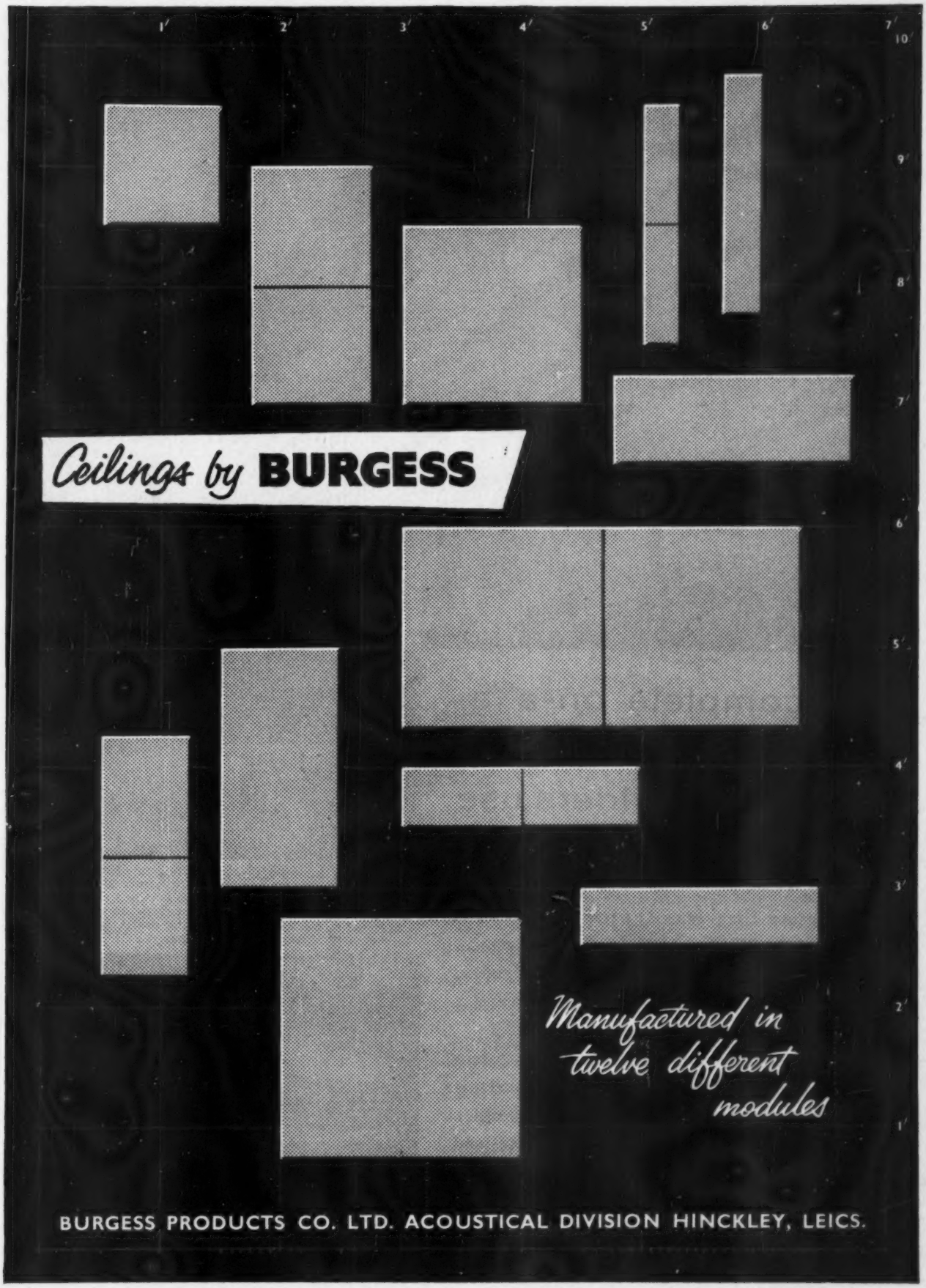
A series of over
150 patterns in
a modern finish

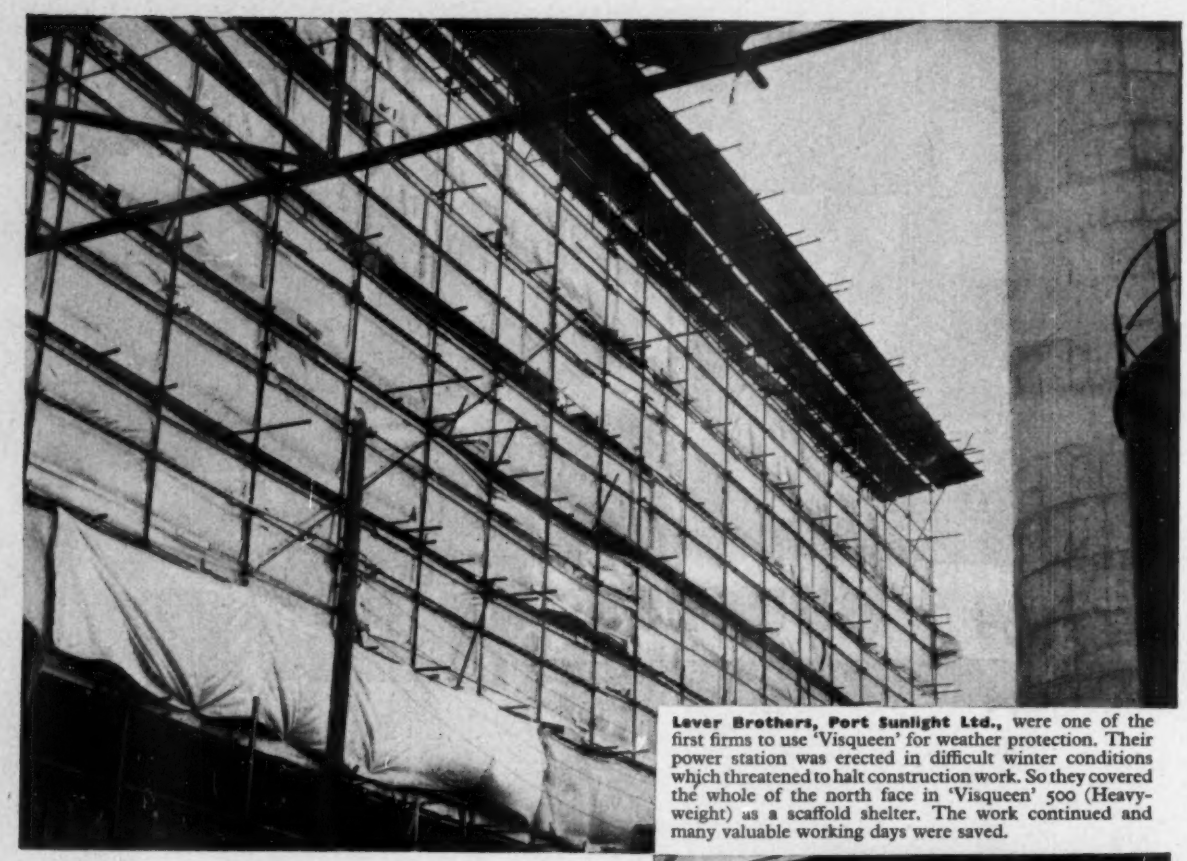
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Manufactured in twelve different modules
BURGESS PRODUCTS CO. LTD. ACOUSTICAL DIVISION HINCKLEY, LEICS.



Lever Brothers, Port Sunlight Ltd., were one of the first firms to use 'Visqueen' for weather protection. Their power station was erected in difficult winter conditions which threatened to halt construction work. So they covered the whole of the north face in 'Visqueen' 500 (Heavyweight) as a scaffold shelter. The work continued and many valuable working days were saved.

For complete on-site weather protection go-ahead builders use **VISQUEEN film**

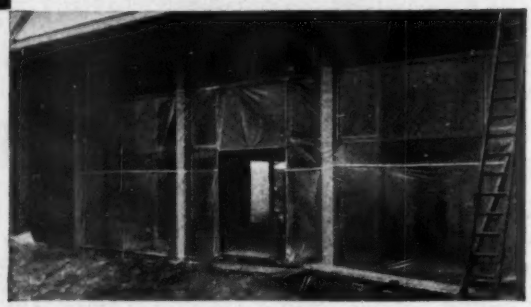
TRADE MARK

INSURE against delays caused by bad weather conditions by using 'Visqueen', the ideal *cover* for men, materials and equipment. 'Visqueen' is tough, waterproof, light and flexible. It will not rot and is unaffected by ice and snow.

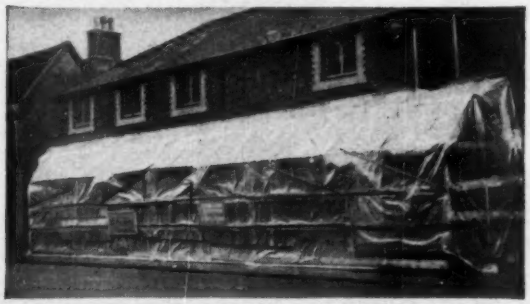
Get the benefit of full daylight with transparent 'Visqueen' and use the heavyweight black sheeting for site tarpaulins (special securing rings available).

For an illustrated brochure, samples, prices and the address of your nearest 'Visqueen' stockist, write to the address below:

BRITISH VISQUEEN LIMITED · STEVENAGE · HERTS · TEL: STEVENAGE 1310.



Gilbert Ash Ltd. used 'Visqueen' during the construction of a new canteen at the English Electric factory in Stevenage. Temporary glazing enabled plastering, electrical fittings and wooden flooring to be completed on schedule unaffected by bad weather and without risk of damaging specially fabricated expensive plate glass.



Business as usual during the modernisation of a shop front. The 'Visqueen' lean-to shelter provided effective protection against rain and snow. Inside the transparent shelter alterations were carried out in good light. Normal trade was unaffected as the premises remained warm and draught-proof.

BV126

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"E.C.M. are not the cheapest: why do you recommend them so strongly?"

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But it was when I got down to details with the firm itself that I made up my mind — they sent me drawings I could read and letters which were clear. When I asked questions they replied promptly and intelligently.

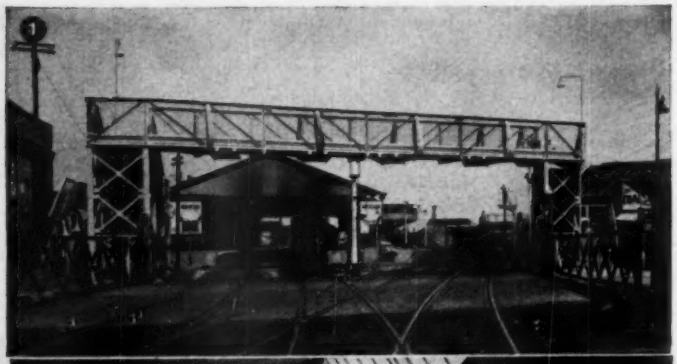
I thought 'this is the kind of firm for me' and as I know they do a good job, I haven't any hesitation . . . . . .

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ECM 65

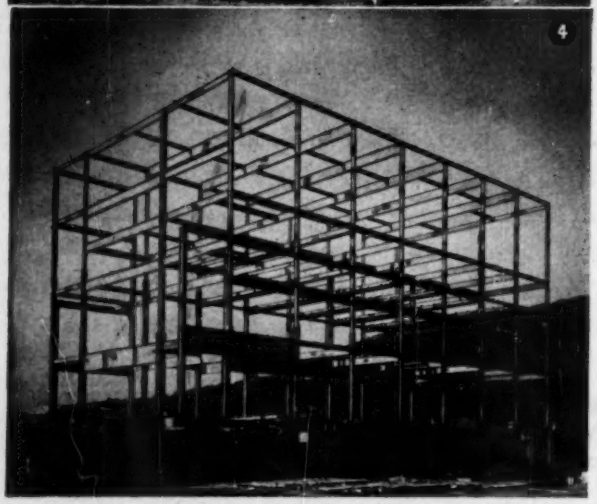
1. Footbridge for Level Crossing in Grimsby.
2. Interior view of factory for Messrs. Brook Motors Ltd., Barnsley.
3. Sowerby Bridge Secondary School.
4. Control Room, Services and Welfare Block, Elland Power Station.





STRUCTURAL STEELWORK





BY AUSTINS

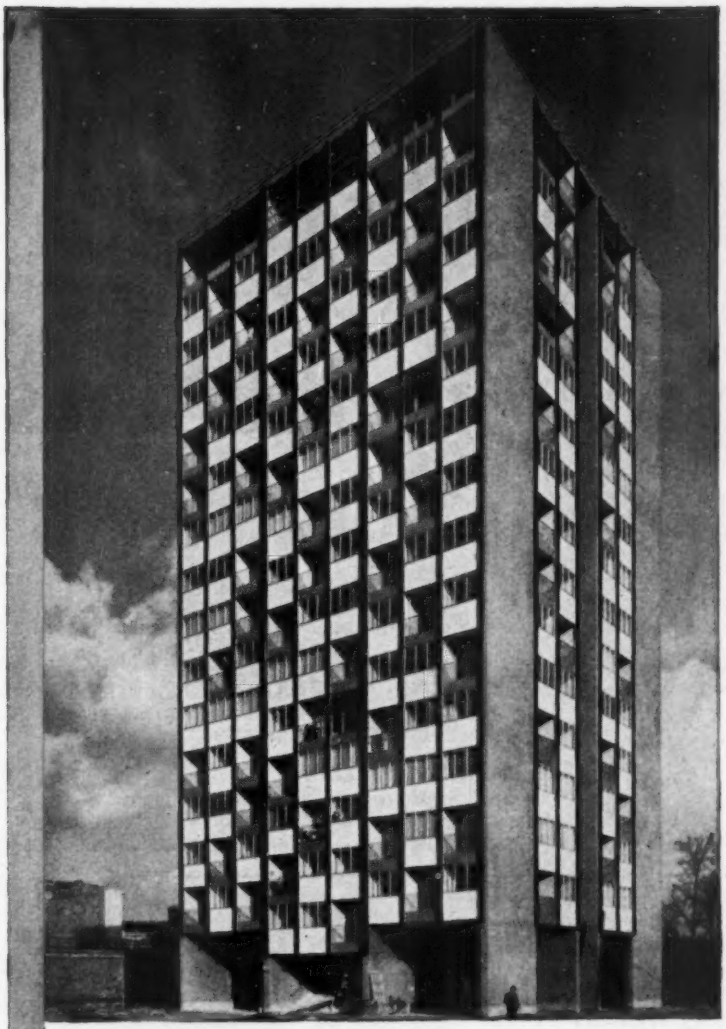
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H.P.5917



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For further information please write to Building Department

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LIQUID BITUMEN PROOFING

for damp-proof membranes in concrete floors

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AQUASEAL No. 5 Liquid Bitumen Proofing possesses perfect waterproofing and protective properties. Within a few hours of application it forms a firm, jointless waterproof coating.

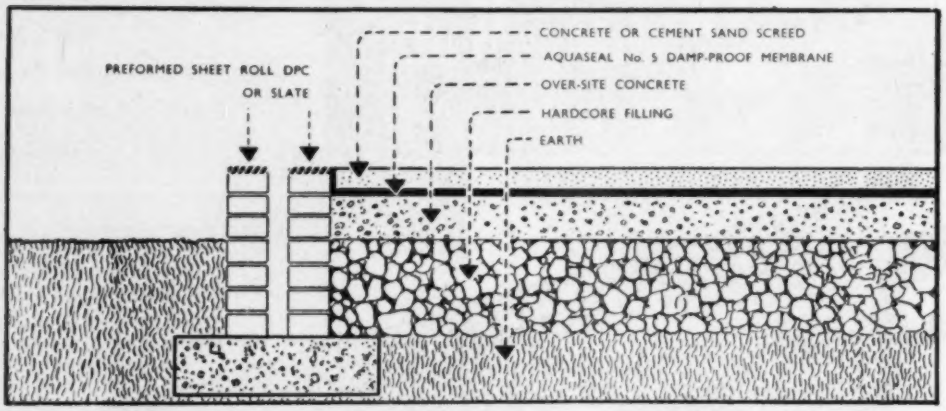
2. FIRMLY ADHERENT
AQUASEAL is highly tenacious and will adhere to any clean surface.

3. DURABLE
Like the bitumen from which it is made, AQUASEAL is almost imperishable.

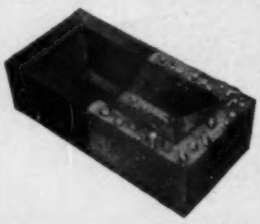
4. JOINTLESS
Successive sections merge into a continuous coating.

5. RESILIENT
AQUASEAL remains flexible, enabling it to take up any slight movement in foundations.

6. EASILY APPLIED
Applied straight from the container on to dry or damp concrete, it is simply spread on with fibre brooms or brushes.



AQUASEAL Liquid Bitumen Proofing has been used by the Building Trade for over 30 years.



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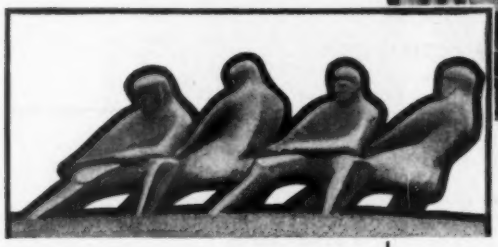
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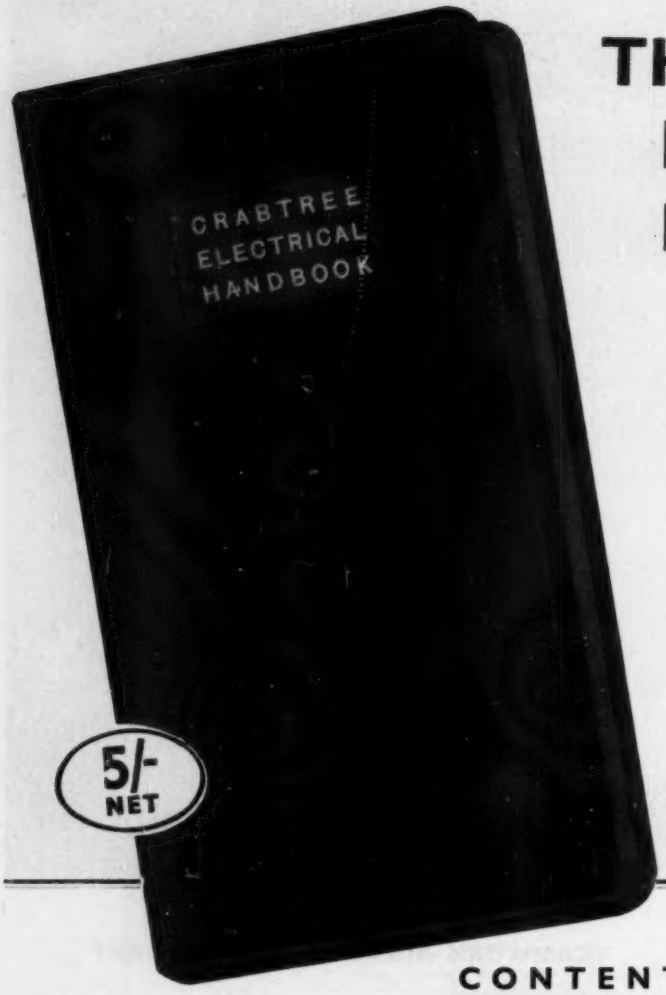
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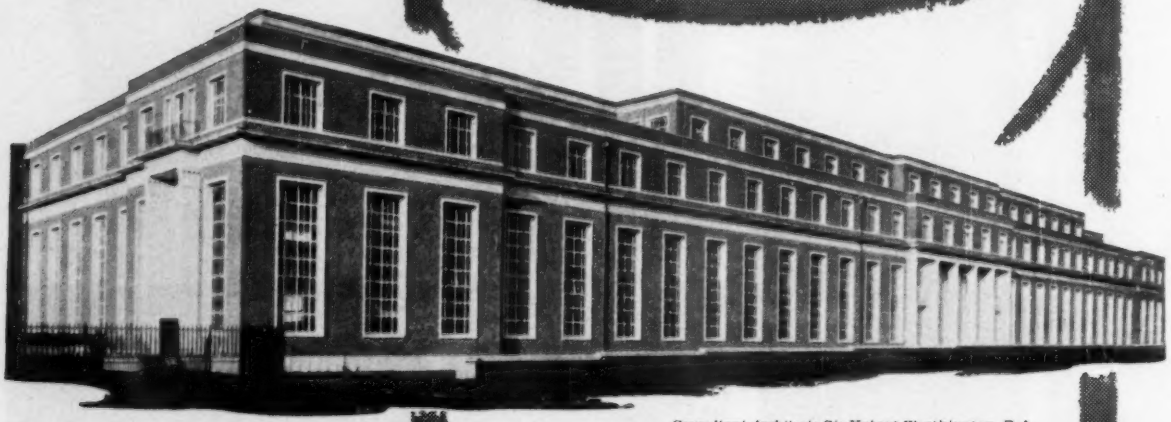
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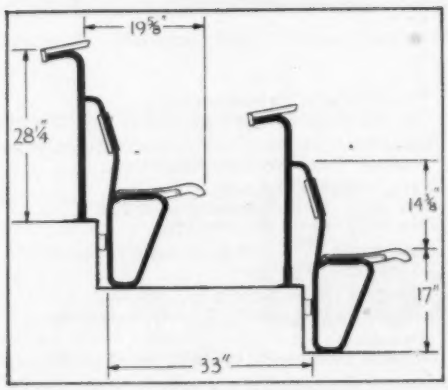
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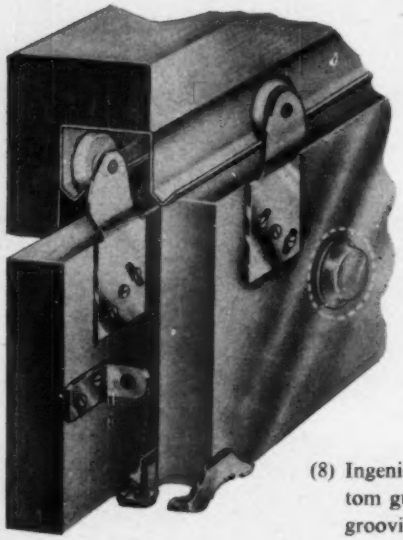
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Vol. 215 No. 13

THE ARCHITECT & BUILDING NEWS

1 April 1959

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854
Annual subscription: home, £2 18s. 0d.; overseas, £3 8s. 0d.; Canada and U.S.A., $10.00. Registered as a Newspaper
Published by ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1.
Telephone: Waterloo 3333 (60 lines). *Telegrams:* "Architonia, Sedist, London"
Branch Offices: Coventry: 8-10 Corporation Street; telephone, Coventry 25210. Birmingham: King Edward House, New Street, 2; telephone, Midland 7191. Manchester: 260 Deansgate, 3; telephone, Blackfriars 4412 and Deansgate 3595. Glasgow: 26B Renfield Street, C.2; telephone, Central 1265

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HOUSES AND PEOPLE

WE make our buildings, Sir Winston Churchill once remarked, "and our buildings make us." So, in his characteristically succinct way, he drew attention to the responsibility which rests upon all who commission and design houses and estates. While most people are only too willing to accept the fact that "our buildings make us" yet when the actual task of planning and design is begun this factor is largely forgotten.

There are those who would say that the architect when designing individual houses or groups of them should be left untrammelled to produce a creative design which would pay due regards to the needs of family and community alike. Others would maintain that the architect should receive from his client, especially when that client is a local authority, very clear instructions about what he is to produce. Those instructions should, of course, have regard to the interests of the community as well as those of individual families. Whichever be the right approach social considerations can only be divorced from the task of design at the cost of unhappy, and often unlooked for, results.

The Report of the Central Housing Advisory Committee,* their first report for 21 years, emphasizes the need for more attention to be paid by housing authorities to such matters. "We consider that housing is a field in which far more study of tenants' needs and reaction should be made." The committee stresses particularly the need for all concerned to garner more carefully the fruits of family and tenant experience. "The comments of prospective as well as of present tenants show the greater popularity of certain house types or room arrangements, or a preference for particular means of access in blocks of flats. Again, a knowledge of the use made by tenants of equipment provided in existing dwellings, such as heating appliances or drying cabinets in flats, or their criticism of certain kinds of windows, or of storage space, or methods of rubbish disposal, is of value in deciding whether to repeat them in new buildings."

The committee also emphasize a new aspect of the housing problem. "In view of the increasing number of flats being built it is important to study the reactions of tenants to the unaccustomed conditions of life in large blocks of flats, and to observe the use made of such things as balconies, laundries and common gardens."

All these things need attention and the committee have done a signal service in reminding us of the need. But there are wider matters which also call for thought. The house may influence the family in its growth but the estate can shape both them and the community. Much of the charm and richness of local life in earlier days was due to the manner in which houses of all kinds were found in the same neighbourhood. Housing estates seem to have sterilized much of that life. It may be that pressing financial or other criteria make such planning next to inevitable. Yet actions like that of the Croydon Borough Council (in saying that no family who earn £20 a week or more can live on their estates) prompt the question, do we wish to insist upon estates devoted exclusively to housing only people of one class of income?

It is for elected representatives to tell their architects what they want to see in their houses and on their estates; but, nevertheless, their architects are their advisers and the job of advisers is to advise. Both councillors and architects, to say nothing of a wider public, may find in this report much which should influence them when they next begin to plan new houses.

* "Councils and Their Houses." H.M.S.O., 2s 6d.

EVENTS AND COMMENTS

THE NEW PICCADILLY CIRCUS — II

On this page you see a picture of the L.C.C.'s new suggestions for Piccadilly Circus. Last week I showed the not very tall, tall building which formed part of it. Here is the design for that building, prepared by the architects, Cotton, Ballard and Blow, with Mr. J. G. L. Poulson as consultant. It will stand on the site of the Monico Restaurant, demolition of which is due to begin tomorrow. The new design is a sad disappointment. The two-storeyed base seems to me to be too high for the tower, which is not really tall enough. Its outline is not very dramatic, and, although the arrangements that have been made for electric-sign advertising are ingenious, I do not think that the project is nearly distinguished enough in conception. I understand that formal planning consent has not yet been given, nor has the Royal Fine Art Commission's opinion been published. There is, therefore, still a chance that a more dramatic tower with a less fussy outline and less heavy base might be built. Meanwhile, it is satisfactory to note that the developers, Island (Piccadilly) Development Ltd., are determined to see that the "design and placing of the advertisements shall conform to the highest possible standards". This must be the first building ever put up expressly as an advertisement hoarding. Is it a good precedent?

1s PLAIN AND 1s 6d COLOURED

Now that spring is on the way and even those of us who hibernate longest are beginning to take short walks on fine afternoons, I sugest an early visit to Chiswick House. The skilful, almost extravagant, reconstruction of this architectural gem was very fully reported in the A. & B.N. for December 24, 1958.

A model of the advisory scheme prepared by the L.C.C. for Piccadilly Circus



Entrance costs 1s 6d, which seems rather a lot except when put against the money spent on the building. The ground floor is arranged as a museum of drawings of the building and projects for it. Many of these have been lent by the R.I.B.A. The stairway to the grand floor is hidden in one of the internal piers and is easy to miss. The colour and decoration of the living rooms is most splendid and includes some of the finest and richest flock papers I have ever seen. Furthermore, the guardian knew where they came from and their cost per piece.

Hampton Court Palace, where you pay but a 1s for the right to tramp through miles of State apartments, is badly in need of redecoration. Seen after Chiswick House it seems dull and dirty. The vast areas of floor quickly become marked with the ground brought in on the feet of the thousands of visitors. The apparently badly drained ground paths in the gardens have a thin layer of mud on them for long after rain and this is probably the cause of the trouble inside. Perhaps larger and better doormats would help. Hampton Court must be one of our most popular historic buildings but its interiors are a great disappointment, the furniture is sparse and often pushed away into the corners of the great rooms. It is also very difficult to see the excellent pictures. The general standard is well below that usually maintained by the M.o.W. Could not something be done about it?

CALYPSO AT THE B.C.

The Gas Council recently entertained at the Building Centre about 200 West Indians now living in London. The guests were taken from all walks of life and the theme was "Living together". The idea was two-fold in its purpose, to welcome newcomers to Britain and to familiarize them with the advantages claimed for gas. The guests were addressed by Mr. Julian Amery, M.P., Parliamentary Under-Secretary of State for the Colonies, Sir Harold Smith, chairman of the Gas Council, and Sir Alfred Hurst, chairman of the Building Centre. These speakers were followed by four West Indians, a doctor, a nurse, a bus conductor and an employee of the North Thames Gas Board. This made rather a long list of speeches for a standing audience but as the standard was high, particularly among the West Indians, it did not matter. The doctor, who had evidently lived in Britain for many years, praised the Gas Council for its pioneer work among industries in welcoming coloured people to this country and suggested that other industries might follow. He thought that they had already left the welcome rather late. The nurse, whose speech was the best of all, spoke of her personal difficulties as a coloured student nurse. She made it clear that it was a problem which had to be tackled from both sides. The bus conductor spoke like a university graduate and may have been one, and the gas engineer praised his white workmates and wished that all the Londoners he met were as easy to get on with.

It was a most cheerful evening, the guests looked as if they were enjoying it hugely. They say that the Building Centre still smells of rum punch.

SIR ALEXANDER KILLICK RETIRES

My picture was taken from the portrait of the retiring secretary of the R.I.C.S. by Mr. Norman Hepple, A.R.A. Sir Alexander has been secretary for nearly 27 years. In addition to this life's work for the surveyors he has had two quite separate, and equally distinguished, careers in the Army. The first as a regular soldier,

between 1914 and 1932, and the second upon recall to the Army between 1939 and 1945. In the first war he won the D.S.O. and M.C. and was twice mentioned in despatches. In the second he was employed mainly in top-grade administrative appointments, including that of secretary of the Standing Committee on Army Administration, and Joint Secretary (Military) of the Army Council Secretariat. During his term as secretary of the Royal Institution of Chartered Surveyors, the membership has increased from 7,800 to more than 22,000. Readers will, I know, join me in wishing Sir Alexander a long and happy retirement.



Sir Alexander Killick

R.I.C.S. NEW SECRETARY

Sir Alexander Killick's successor is Rear-Admiral P. W. Burnett, C.B., D.S.O., D.S.C., who, as can be seen, is a very distinguished sailor, with a long record of service at sea and ashore. This change of service at the R.I.C.S. will no doubt test the flexibility of its internal organization; among the many minor changes which may be expected, office boys will no longer be late but adrift and cocoa will be served in place of tea. The admiral for his part will have to be very careful what he says about pongoes. These are, however, comparatively minor points and should not be allowed to interfere with our welcome to Rear-Admiral Burnett or our best wishes to him in his new and important appointment.

CENTRAL ELECTRICITY APPOINTS AN ARCHITECT

Mr. Michael Shepheard, B.ARCH., A.R.I.B.A., has been appointed architect on the staff of the C.E.G.B. in the chief design and construction engineer's department at the board's headquarters. He will advise the board on the architectural aspects of its work and will act as secretary to a panel of consulting architects under the chairmanship of Sir William Holford. Mr. Shepheard was trained at Liverpool University School of Architecture and has worked mainly in private practice. He was for three years on the architect's staff at Basildon, and has worked with Mr. Hugh D. Roberts and Sir Giles Scott. He is 39 and younger brother to Mr. Peter Shepheard. This is a satisfactory appointment, although Mr. Shepheard's exact status in the C.E.G.B. hierarchy is not stated. I very much hope that the board will heed his advice.

MR. STANLEY HEARDER

After 14 years as director of the National Federation of Building Trades Employers Mr. Stanley Hearder retired yesterday. Throughout that time he has been a tireless worker for the federation and an outstanding negotiator for the industry. Mr. Hearder excelled on the public relations side of his appointment and is held in high regard in the ten regions of the N.F.B.T.E. His retirement, coming at the same time as that of Sir Alexander Killick and shortly before that of Mr. C. D. Spragg at the R.I.B.A., will be widely felt in the industry which he has served so well. He has earned a long and enjoyable retirement.

MR. CLEEVE BARR FOR THE MINISTRY OF HOUSING

Mr. Cleeve Barr's appointment as chief architect to the Ministry of Housing and Local Government will be welcomed by all those who have followed his steady rise in the Civil Service and his perhaps better known work, first as pressure-man at the R.I.B.A., and then as chairman of its Constitutional Committee and a member of the council. He himself has said that it is one thing to hurl bricks at an a.g.m. and quite another to design a new electoral system. His experience at the L.C.C., the Ministry of Education and on various important committees of the R.I.B.A. should be of great assistance to him in his new position.

B.A.S.A. CONFERENCE

The British Architectural Students' Association is holding a conference at Trinity College, Cambridge, on April 4 and 5; its title is "The Function of the Architect in Society". A second conference will discuss how the function of the architect may best be carried out and then the association will be ready for a searching examination of architectural education. Attendance at the Cambridge Conference (you will, of course, remember the Oxford Conference) will be limited to a manageable 150, and the list of distinguished speakers will include Percy Johnson-Marshall, Robert Matthew, George Grenfell Baines, Eric Lyons and Sir Leslie Martin. If all those who have been invited to attend accept there is going to be precious little room for students.

I hope that the often forgotten function of the architect to provide good business at the right time and the right price will not be overlooked.

NEW COURSE AT MANCHESTER

A new combined course in architecture has been inaugurated at the Regional College of Art, Manchester. Thirty students have already started the first year of the course which is full-time in the college. During the year the students will be prepared for office experience and tried out for their aptitude to become architects. At the end of the year they will be interviewed and, if found suitable, will be placed in offices for a further three years. During those years they will spend one day a week at the college. The fifth year is a full-time college year. The course is concluded after a further two years in an office, making seven in all, of which five will be earning years. The R.I.B.A. has approved the course in principle. The Manchester Society of Architects is supporting it and is collaborating closely with the Department of Building at the College of Technology. A meeting of architects is to be held at the Regional College of Art on April 8, at 6.30 p.m., to discuss the course. The speakers will be Mr. George Grenfell Baines, who is a governor of the college, and Mr. Cecil Stewart, head of the School of Architecture. Mr. John H. Holden, principal of the college, will be in the chair.

This is really a double-decker sandwich course and its success will depend very largely on the closeness of the relationship between the architects in whose offices the students are to work and the school. It is an interesting experiment which will be closely watched by many other schools. No doubt Mr. Grenfell Baines will have something to say about it at Cambridge.

ABNER

The Tumpkins Saga—I by ALBERT ANARISC

The Man Who Never Would Be

HE switched on the gas fire, took off his raincoat and hung it upon a hanger—a hanger marked G.W.T. for George Walter Tumpkins. The time, 9.1 a.m.; the place, the fifth floor of a city building, a rear window, a quantity surveyor's office. Smuts and dust had settled overnight on an upturned drawing which covered a desk groaning under quantity surveyors' brick-a-brac—abstract and dimension paper, scrap pads, coloured pencils, doodled-on green blotting paper and, somewhere beneath them all, an inky, engine divided, scale. The view outside the window was an interesting one—white glazed tiles (on which you measure internal angles), black soil and vent pipes with their fascinating junctions and ¼in obscured glass, and glazing to metal windows with putty, in squares exceeding two, but not exceeding four feet super.

* * *

A builder's surveyor had once said that there were no flies on George Walter Tumpkins. And there weren't. He was too thorough for that. He was twenty-eight years old, medium height with a waistline a little over the average and receding dark straight hair. He wore a suit of clerical grey and black toe-capped shoes which he cleaned each morning before breakfast. He owned an electric razor. His horn-rimmed spectacles had round lenses, *circa* 1936, and he breathed on them and polished them regularly throughout the day. He lived in the suburbs, the only son of doting parents who, never rich, had scrimped and saved for twenty years to see their child launched into a profession. They were now rewarded. George was on seven hundred a year, plus bonus and overtime and luncheon vouchers. He carried a furled umbrella which aged him by five years and he wore a homburg hat which added a further ten. He worked, of course, in London.

He was thoroughly capable and conscientious. He enjoyed his work, rather in the way that a cow enjoys chewing grass, and he was painstakingly accurate in all that he did. He could worry a final account to death like a terrier with a rat. His examination record, unfortunately, was a little unsatisfactory, for, although after completing his military service he had passed the Intermediate Exam with no trouble, he had recently, in the Final, been referred in Quantities for the third successive year. But Tumpkins was nothing if not quietly full of misplaced confidence in himself and he had no doubt that this year would see the Diploma on the wall. Then, his examination behind him, he would emerge into a land of sunshine after rain and all doors would be open to him. This at least was the picture in Tumpkin's mind which was little more than a storehouse of mixed metaphors anyway. The facts were that because he had all the qualities of a good assistant—conscientious, unambitious, easily satisfied and rarely complaining—he had little hope of ever being anything else but a good assistant. He was not what they call in the Clubs "partnership material".

* * *

There were those who saw George Walter Tumpkins as dull. Certainly he breathed no fire. Some of his best friends—and he had quite a few—believed for instance that he had not been present when the baser instincts were awarded, that he had no interest in girls. How wrong they were only he knew, he and the new typist to whom he gave, as often as he could, his laboriously constructed letters to architects and builders and nominated sub-contractors. Not only did he enjoy seeing in typescript the sentences which he had written, he enjoyed the pleasurable sensation of a pretty girl standing at his side as he read them over and he made a point of trying to say something cheerful—even a little adventurous, shall we say—to Irene as he signed his name. There were indeed times when Tumpkins day-dreamed delightful things about her . . . an evening out . . . a coffee bar . . . a meal at a table for two . . . gypsy music . . . a bottle of Empire wine . . . and on, perhaps, to Intimate Review . . .?

* * *

At his work Tumpkins was something of a specialist. He specialized in the measurement of plumbing and drains and not a bill had left the office in the past three years in which you could not see the hand of Tumpkins behind one or both of those trades. Years ago he had learned the order of measuring plumbing without having to check with "Willis" each time he began a new job and, of course, he knew up to what sizes bends are included in the running lengths of all the different kinds of pipe. He even knew, and you may find this hard to believe, he even knew by heart the numbers of ten of the fittings in the Ding Dong Copperworks Company catalogue. He was as good as that.

But although the measurement of plumbing and drains was his first love, Tumpkins was essentially—and that was a favourite word of his—essentially an all-rounder. You see he could "prepare and settle final accounts". Indeed, so important did he consider this aspect of the quantity surveyors' work that he put aside one morning of each week in turn for one of the four final accounts for which he was responsible. He was wise enough to see that without his doing this it was possible that none of his final accounts would ever be settled.

* * *

Today was such a morning and a note scribbled the previous evening reminded him of an appointment as soon as he removed his upturned drawing—"Tuffplastic 9.45."

Tuffplastic had laid thermoplastic floors at Barwick Road School. They were nominated sub-contractors, and Barwick Road School was an audit job. George had measured their work on site and agreed a figure; all that remained was to check a claim for £8 12s 7d for increase in cost of labour and this morning he had arranged to visit Tuffplastic's local office to see original time sheets, signed by the clerk of works in substantiation of, to use his own phraseology, in substantiation of, their claim. Signed by the clerk of works remember. There were no flies on George Tumpkins.

He called briefly in the typist's office to explain where he would be. Irene hung her head when he entered, like a pretty wife who had been taken in adultery at Christmas. Then he rang for the lift and was soon in the noisy street. He walked along Merchant Street and into City Road past a butcher hanging up tripe. Round the corner into Dean Avenue with its sordid newspaper placards "Girl dead in Bath—Man held" and "Teams for Saturday", and so

to the park. Birds were singing and a spring sun was warm and friendly, although Tumpkins didn't notice things like that. His mind was occupied with Barwick Road final account and he was wondering which sub-contractor to tackle once Tuffplastic had been finalized. (Another of his words). Then he remembered that if he hurried and returned to the office before 11.30 he would have time to write a final letter to Tuffplastic asking them to agree to his figure. Although he was too good a quantity surveyor not to put work first it did cross the dreary backcloth of his mind that if he thus hurried his morning's task he would have Irene at his side, holding one of her beautiful letters, before lunch. He began to search for something cheerful he could say to her as he signed . . .

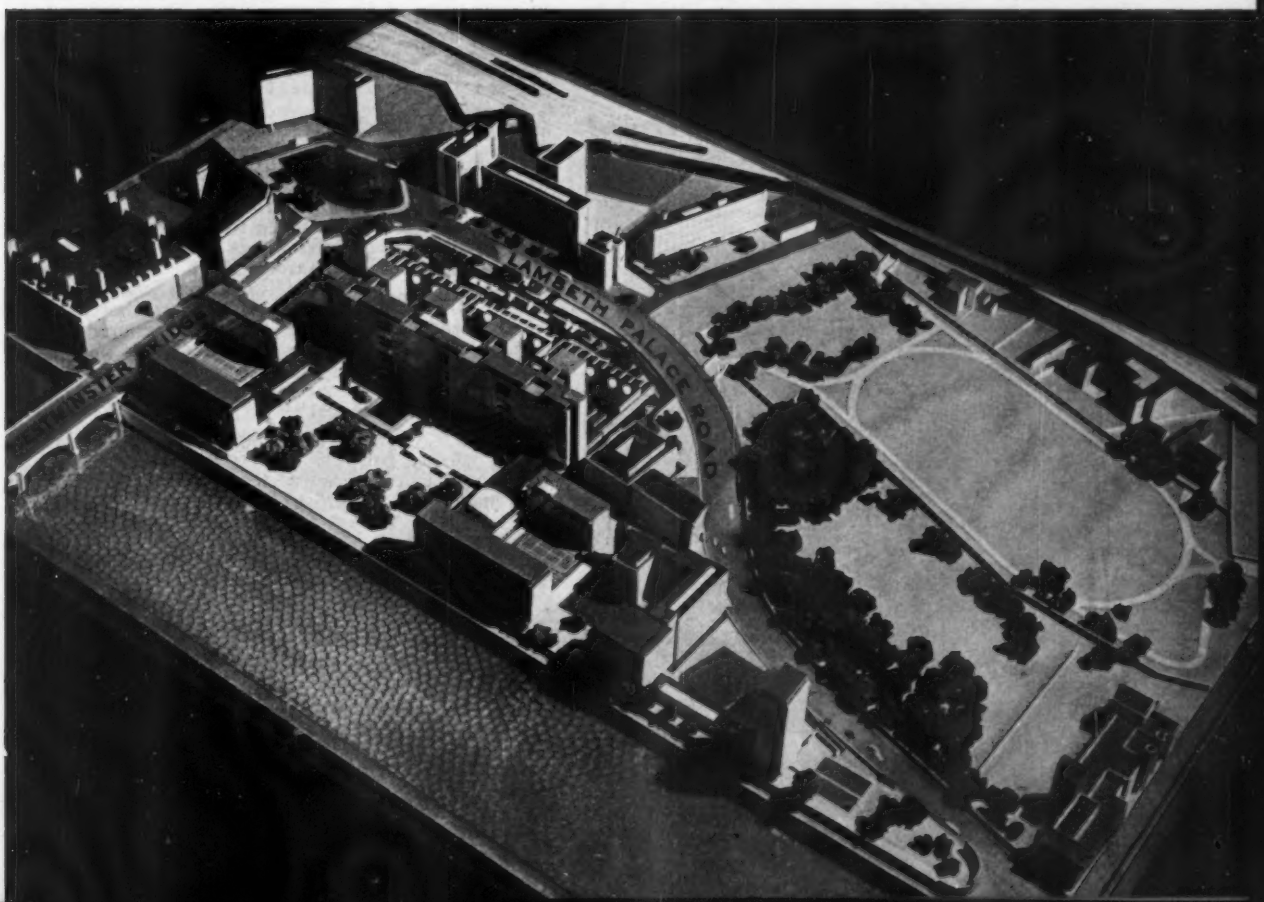
* * *

On he went, through the park gates, across the road, past the flashy new radio shop and the parenthood store which always made him feel peculiar. Up Duke Street, first left, first right and he was approaching Tuffplastics smart new office (actually it was hideous). Mr. Reed, local manager, was business-friendly, seemingly efficient, shall we say hail-fellow-well-met. He was small and fat with a thick neck, wide head and prominent ears. Had you seen a close-up of him on the television screen you would have adjusted picture height. Tumpkins liked him, but not many people did. He produced his sheets, George looked through them, picked out the hours on Barwick Road, disallowed one sheet not signed by the clerk of works and adjusted the summary total to £8 4s 9d. He shook hands with Mr. Reed, agreed to send on his revised figure for the final account—and left.

He returned the way he had come and as he passed the flashy new radio shop on the corner they were playing a record of Eartha Kitt singing "Proceed with Caution". It was a touch of irony which would not have escaped a Shakespeare—or even a client—but which passed over the head of George Walter Tumpkins. He wasn't even listening. He was planning the remainder of his morning. The final figure to be reached and checked on the machine, the letter to be drafted and typed. Then the Barwick Road papers to be put away for another four weeks and the return, p.m., to the new job in hand—measuring the plumbing in a block of shops and offices. He walked through the park almost rubbing his hands with glee—that feeling of wellbeing that people with slightly over-average waistlines always seem to have. He though of his useful morning, another nail driven into the coffin of Barwick Road, an education committee saved seven and tenpence. Then he contemplated an afternoon to be spent designing—you always had to design the plumbing layout for this particular architect—designing and measuring tubes and holes and paint and pipes and fittings. Fittings. The Ding Dong Copperworks Company Catalogue, Elbow, No. 52; Sweep Tee, No. 66. Sixty-six, clickety-click. Clickety-click! That's what he would say to Irene when he signed the letter today "Sixty-six, clickety-click". Oh yes, she would like that, Irene would.

He was quite a boy, was George Walter Tumpkins.

Work will begin in May on a £232,000 road scheme in connection with the rebuilding of St. Thomas' Hospital, Lambeth. A main feature is the diversion eastward of the northern part of Lambeth Palace Road which will almost double the site available for the hospital. Of the estimated cost £180,000 will be paid by the hospital. The picture shows the rebuilding scheme and the new road. Outline approval has been given by the Royal Fine Arts Commission and the L.C.C. Hospital architect, W. Fowler Howitt



NEWS

Chief Architect : Ministry of Health

Mr. W. E. Tatton Brown, M.A.(CANTAB.), A.A.DIP., A.R.I.B.A., A.M.T.P.I., deputy county architect, Hertfordshire, has been appointed chief architect to the Ministry of Health. This is a new post, following the decision that the Ministries of Health, and Housing and Local Government should have separate architectural establishments.

Architectural Assistant Skippers Rugby Tour

An architectural assistant, A. R. Dawson, of Wanderers and Ireland, has been chosen as captain and hooker for the British Lions on their tour of Australia, New Zealand and Canada. The team is the third since the first war to visit Australia and New Zealand, and will play 33 games—six in Australia, 25 in New Zealand and two in Canada. Mr. Dawson is assistant to the architect of the Bank of Ireland. He has eight caps, captained Ireland this season for the first time and is the fourth Irishman to captain the British Lions' touring side.

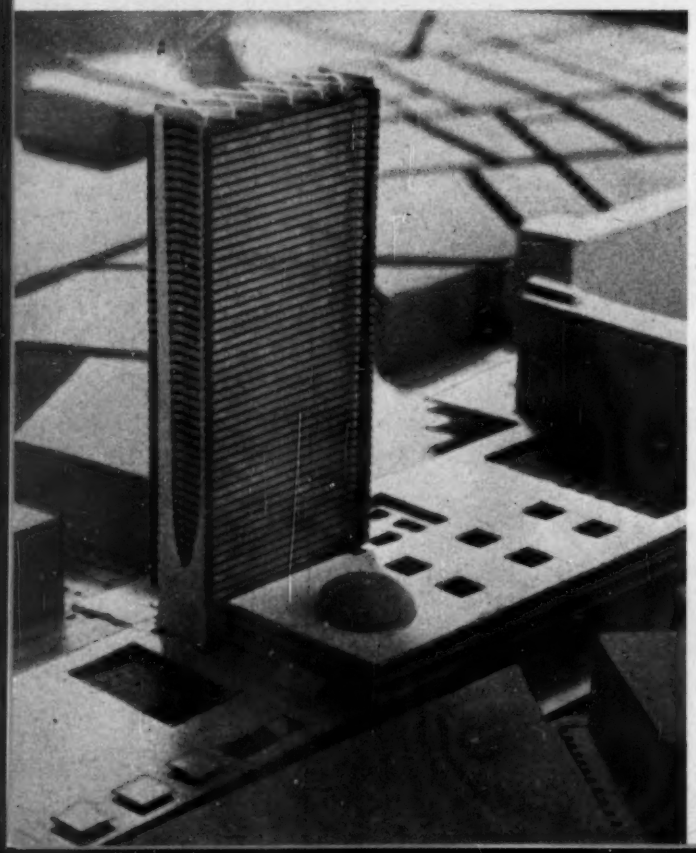
New Professor of Architecture

Mr. Frederic Fielden, M.A., F.R.I.B.A., a senior lecturer in architecture at King's College, University of Durham, has been appointed Professor of Architecture at the Royal College of Science and Technology, Glasgow. He takes up his appointment on September 1.

Mr. Fielden was educated at Manchester University and was R.I.B.A. Athens Bursar in 1950. Before the war he worked for a short time in London with Raymond McGrath. Immediately after the war Mr. Fielden worked on town planning in West Africa under the general direction of E. Maxwell Fry. He served with the Royal Engineers (bomb disposal) during the war, and from 1942 onwards in Special Forces (North Africa, Italy, France and Belgium).

He was appointed lecturer in architecture at the Leeds School of Architecture in 1947 and went to Durham a year later. For the past ten years he has also been in practice with H. Wharfe as The Design Partnership, Newcastle upon Tyne.

A scale model of the new 52-storey skyscraper to be built in the Montparnesse District of Paris, on the left bank of the Seine. It will be 600ft high—half the height of the Eiffel Tower



London Basements Parking?

Mr. Roland Russell, Conservative M.P. for Wembley South, asked the Minister of Transport, in the Commons: "Whether he will examine the possibility of providing space for long-term parking by utilizing the basements of suitable buildings in the West End and the City of London."

The Minister, Mr. Harold Watkinson, stated in a written reply: "It is not usually easy or economical to convert an existing basement for garage use, but if Mr. Russell will let me have details of any suitable accommodation he may have in mind, I will gladly bring them to the notice of the responsible local authorities."

Town-planning Tour

A town-planning holiday-study tour of Austria is being organized by the Town and Country Planning Association for April 29 to May 20. Details are available from the tour secretary of the association at 28 King Street, Covent Garden, London, W.C.2.

R.I.B.A. Annual Discourse

Mr. Charles Eames is to give this year's annual discourse which will take place at 66 Portland Place, W.1, on Wednesday, April 15, at 6 p.m. A special meeting is being arranged the day before at 7.30 p.m. at the R.I.B.A., to show some of Mr. Eames' films. These will include: "Black Top", "Parade", "Communications Primer", "House" and "Toccata for Toy Trains". No tickets are required for either meeting and admission is free.

A.R.C.U.K. Scholarships

The Board of Architectural Education of the Architects Registration Council of the United Kingdom has awarded maintenance scholarships as follows: B. W. G. Roberts, Manchester University, increase from £100 to £186 a year; C. J. Brooke-White, University of London, increase from £171 to £243. New awards: K. L. Hilton, Regional College of Art, Hull, £212; R. Young, School of Architecture, Oxford. F. Witham, Manchester University, has relinquished his award of £100 on ceasing to be in residence at the university.

R.I.B.A. Cricket Club

The R.I.B.A. Cricket Club still has room for promising, young, talented batsmen, bowlers and fielders, writes the vice-captain and honorary secretary, Mr. D. L. Robinson, of Ronald Ward & Partners, 29 Chesham Place, London, S.W.1. Other officers for the year are: captain, Mr. C. A. R. Norton; honorary treasurer, Mr. J. G. Batty. Matches have been arranged as follows: with the Vitruvians, at Elstree, on May 12 (start 2.30 p.m.); L.M.B.A., Wimbledon, May 27 (11.30 a.m.); Architectural Association, Elstree, June 10 (2.30 p.m.); Blue Circle, Bromley, July 8 (11.30 a.m.); R. I. C. S., Cheam, July 22 (11.30 a.m.); C.C.C., Wimbledon, August 26 (11.30 a.m.). Social fixtures include a cocktail party, at which guests will be welcome at the A.A., on April 10, 6 to 8 p.m., and the annual dinner, also at the A.A., on November 13.

Law and Administration

Housing and the Doctors

In the course of a number of local inquiries, held in the recent past, into slum clearance schemes it has been noticeable that more attention might have been paid to the problem of doctors' practices. It may be that this is what has led to the issue by the Ministry of Housing and Local Government of *Circular 16/59*. The Minister is concerned in the Circular "to remind housing authorities of the desirability of early consultations with Excutive Councils when their actions may affect doctors' practices" and he adds that "the steady extension of slum clearance has re-emphasized the value of such consultation". The Circular discusses arrangements to be made both when old estates are to be redeveloped and when new ones are to be built.

Homeless Families

The Ministry of Housing and Local Government has published a joint Circular with the Ministry of Health, *Circular 17/59*. As a result of a review of the problems raised by homeless families and unsatisfactory tenants "a conference of local authority associations, including the London County Council and the Metropolitan Boroughs Standing Joint Committee, recorded a wide measure of agreement on the broad lines of policy which should be followed by the various authorities concerned and the division of responsibility between them . . ."

The Ministers have set out in this Circular the conclusions reached and they ask all local authorities to review their existing arrangements in the light of what is said there. They stress particularly the need for co-operative schemes between the housing authorities and welfare organizations, giving examples of such schemes in an Appendix to the Circular.

Requisitioned Houses

The Minister of Housing, following up certain recent comments he made in the House of Commons, has sent to the local authorities concerned *Circular 18/59*. In it he stresses that they "should now embark, as a matter of urgency, on a special and sustained effort to bring their use of requisitioned houses to an end within the next twelve months". The Minister reminds authorities of the various courses open to them under the 1955 Act, to achieve this end.

Local Housing Bonds

There are several methods whereby local authorities can borrow money for housing purposes. One of these is by means of the issue of local housing bonds authorized under Section 12K of the *Housing Act, 1936*, now re-enacted as Section 138 of the *Housing Act, 1957*. Since 1919 the grant of the Minister's consent conferred trustee status not only on the bonds but upon *all* the mortgages of the authority receiving that consent. In 1928 the Lord Chancellor's Committee objected to this because trustee status was thereby extended in a piecemeal fashion. Accordingly, thenceforward, the Minister withheld any further consents.

Now, however, the *Local Government Act, 1958*, has, by Section 54, conferred trustee status on all mortgages and securities of local authorities. The Minister of Housing, as a result, has announced in *Circular 19/59* that he now consents under the 1957 Act to borrowing by the issue of bonds by all local authorities and county councils empowered by Section 138 of the *Housing Act, 1957*, so to do.



(Picture by courtesy Zodiac)

Office building, Oaklahoma, by Frank Lloyd Wright. The floors are cantilevered from four concrete piers

Half-a-million More Vehicles

The annual census of motor vehicles for which licences were current at any time during the quarter ended September 30 shows an increase of nearly half-a-million vehicles in use in Great Britain last year bringing the total figure to 7,903,638.

Coming Events

Brixton School of Building Old Boys Association

April 3 at 6 p.m. for 6.30 p.m. Annual general meeting and supper (tickets 16s 6d). At the Windsor Castle Restaurant, Victoria, S.W.1. Hon. secretary: L. Wilder, School of Building, Ferndale Road, Brixton, S.W.4.

The Royal Institution of Chartered Surveyors

April 6 at 5.45 p.m. "Survey of the Future in Canada". Robert Steel, B.SC., Barrister-at-Law, Under-Secretary of the Institution. At 12 Great George Street, Parliament Square, S.W.1.

Royal Institute of British Architects

April 6 at 6 p.m. The Library Group. French "Academic" Art, 1779-1789, by Dr. Helen Rosenau. At 66 Portland Place, W.1.

April 7 at 6 p.m. "Early Industrial Architecture", by Brian H. Harvey. At 66 Portland Place, W.1.

Building Surveyors' Institute

April 15 at 6.30 for 7 p.m. London and Home Counties annual dinner. At the Piccadilly Hotel, W.1.

Bristol Building Centre

April 16 at 7 p.m. "Modular Co-ordination and Standardisation in Building", by Bruce Martin, A.A.DIPL.(HONS.), A.R.I.B.A., head of modular co-ordination studies, British Standards Institution.

Minister Details Largest Roads Programme

Details of what Mr. Harold Watkinson, the Minister of Transport, described as the largest roads programme that the country has had in modern times were given to the House of Commons last month. The Minister's remarks are reported below by our Parliamentary Correspondent

MR. Harold Watkinson, Minister of Transport, said that from an average of roughly £12 million spent over the past four years on new construction and major improvements, the Government was planning at lifting it to not less than £60 million per annum. Expenditure this year will be nearly £47 million, next year it will be £55 million, and the year after it will rise to £65 million.

"Thereafter—and these are very important words, and I am grateful to the Chancellor for authorizing them—this expenditure will be planned on the basis of not less than £60 million per annum", said Mr. Watkinson.

"The Ministry has a firm base on which to plan for the future", he continued. "If it can expand that base, good luck to it, but at least we have a firm base and the Ministry has never had that before. It will allow an immense amount of future planning to take place.

"Let us take one other figure and see what share of national investment is being put into roads. To the £60 million must be added £33 million of Government money for maintenance and minor improvements, many of which are vitally important.

"There must then be added £50 million for local government contributions. In other words, we are now spending at a rate of not less than £140 million a year on our road system. In my view that is a very fair share of the capital investment programme."

The Minister than spoke of "just a few schemes which we hope to authorize very shortly," and mentioned three which he said would ease holiday traffic.

* * *

Mr. Watkinson, who was speaking during a debate on an £11,262,000 supplementary estimate for expenditure on the road programme in England and Wales during the year ending March 31, 1959, told the House:

"Construction of the Staines by-pass and the new Thames bridge at a cost of £2·3 million has been authorized and, provided that there are no last-minute difficulties about land acquisition, work should start during the summer.

"Construction of the second half of the Maidstone by-pass has already been authorized, too. The contract has been placed at a cost of more than £800,000 and work will start in April. We have also authorized construction of the Maidenhead by-pass with another new Thames bridge, at a cost of between £2½ million and £3 million. Work will start in May.

"In addition we are starting work on two new motor roads. In May or June we start on the viaducts, which are the first portion of the link from Birmingham to Preston, one of the most elaborate roads in this country and perhaps in the world.

"There will be 80 miles of motor road which will cost no less than £34 million, because it is nearly all a matter of bridges, viaducts, cuttings, and so on. It is an enormous job and a great challenge to those who are to build the road.

"In the early summer we hope to start work on the Doncaster by-pass, again a motor road, at a cost of about £6 million. We also hope to start work at the same time on the Stamford by-pass and the Stevenage by-pass. This is part of the work of bringing the Great North Road up to modern standards, and the total cost will be more than £40 million."

* * *

He next turned to urban schemes, saying there was no sense in building a network of cross-country roads, each one of which ended in "a sort of urban bottleneck". Mr. Watkinson spoke of "the first phase of our attack on the urban problem".

He said: "The Tyne Tunnel is an urgent contribution of great importance to the north-east coast. It will cost nearly £13 million, and I hope shortly to authorize it. I hope, also, shortly to authorize the duplication of the Blackwall Tunnel at a cost of more than £7 million. That will deal with this bad bottleneck in London."

The New Park Lane scheme would start in October, the largest urban scheme in London for many years. The L.C.C. would have to spend £750,000 on diverting sewers and services before the work on the actual road schemes could be carried out. The Hammersmith flyover and the Talgarth Road widening to complete the Cromwell Road extension would be considered shortly.

He went on: "We hope soon to authorize part two of the Birmingham Inner Ring Road scheme, costing more than £1 million. This will bring the ring road into operation. It is an ingenious scheme and great credit is due to Sir Herbert Manzoni and the Birmingham Corporation. It is a scheme which we are glad to back.

"The northern approaches to the new Runcorn-Widnes bridge will cost more than £1 million, and will shortly be authorized. The bridge itself is progressing well and the actual erection of the steel span is about to start. The bridge itself will cost nearly £3 million.

* * *

"In the West Country, I commend the enterprise of those who have taken on the construction of the Tamar crossing as a piece of private enterprise. I was delighted that the Chancellor enabled us to allow work on that to go forward. I hope that others will come forward with this fascinating idea of forming their own companies and associations to build bridges and tunnels. I should be very happy to assist them to impose tolls in order to make an attractive investment from such a scheme.

"We shall soon be adding to the work in Plymouth with the Laira bridge at a cost of more than £600,000."

Mr. Watkinson said the Government were now considering how to meet the second phase of attacking the urban problem—"the full-scale urban motor road, which many of us have seen in the United States and elsewhere". He added: "I am not sure that such a scheme in all its severity is the right answer in our historic towns and cities."

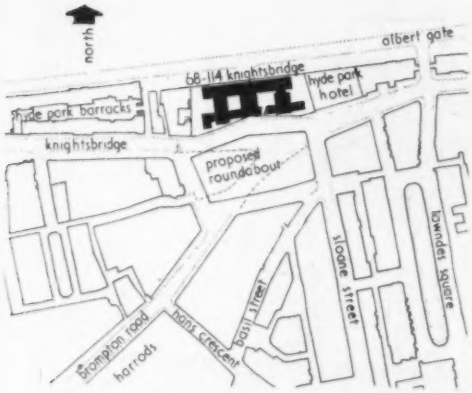
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Mr. Watkinson said he would welcome the co-operation of the architectural profession, engineers, the British Road Federation and others "interested in seeing whether we cannot design our own solution to this urgent problem". He said: "There may be what one might call a British solution to this problem and that solution might make a contribution here and elsewhere.

"In looking ahead to the urban road programme, we will welcome new ideas on how to shape it to fit in with the old and historic buildings and history of our towns and cities and our own special problems. We intend to press on with that."

Earlier, the Minister had discussed a smaller special programme of road works in areas of unemployment difficulties. So far, schemes to the value of £2½ million had been authorized to be started, the Government contribution being just over £2 million.

He exampled a £90,000 Cornwall improvement of the A.38 and a £76,000 widening at Pen-y-Clip, in Caernavon. In Norfolk there was the Larlingford by-pass scheme costing £50,000. In Cornwall, for classified roads, there was a grant of £70,000 to A.387 at Looe Bridge. In the North Riding there was the £59,000 Scarborough-Whitby road scheme, of which £44,000 was ranking for grant. In Devon, there was the Barnstaple-Braunton Road scheme, with a £37,000 grant.



All over London the tower cranes, like Martian fighting machines, give evidence of new "hives of administration" on their way out of the ground. Grouped most closely in the City with diminishing development towards the suburbs, these office blocks, very often with shops under, provide the architect with most of his opportunities in a changing and renewed town centre. A 15-minute stroll round the City will convince one that most of these opportunities have been lost. The reason? Outdated restrictions in building law? The economics of a reasonable rent per square foot on the most expensive sites in the world? Unenlightened clients? . . . or architects? Or do we get what we want? These are questions which arise, and which we will investigate in a future comprehensive issue on the office block. As a preview we publish one of the recently completed schemes . . .

BOWATER HOUSE, KNIGHTSBRIDGE

Architects: GUY MORGAN and PARTNERS

BOWATER HOUSE is part of the changing face of Knightsbridge in London. On the north side of the new intersection (A. & B.N., January 28, 1959), it replaces the domestic scale of nineteenth-century housing and gas-lit streets with a complex of slabs which comprise the "maximum coverage" office block.

Town Planning

The site was zoned for office development at a plot ratio of 4·5:1. Town planning decisions by the London County Council included a wide road across the middle of the site, to be the London end of the South Orbital Road, and a widening of the Knightsbridge road intersection. A road across the site into the park is to relieve the narrow, always congested, Albert Gate and go some way towards easing the busiest traffic spot in all London—Hyde Park Corner. Altogether one quarter of the original site was required for road improvements.

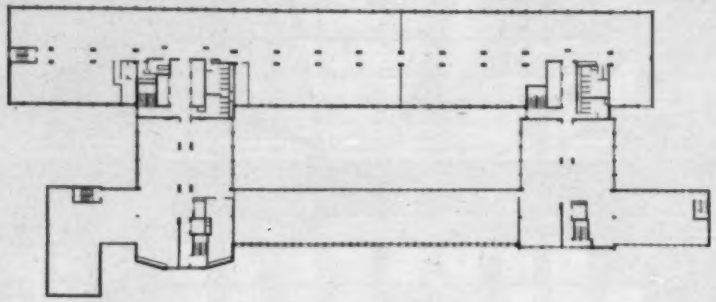
A further complication was the necessity to move the northern entrance to Knightsbridge tube station. Its tunnel had to be extended and its staircase rebuilt within the existing site. Huge gas mains had to be directed as well as all the other services.

Amongst other town planning requirements was the usual demand for car parking to the building, at the ratio of one car space to every 2,500 sq ft of gross floor space. Also with a large building, the London County Council, under the rules governing Restriction of Ribbon Development, demands that all vehicle access to the building be planned so that the flow of traffic on public roads is not affected. In practice this means that all entrances, service entrances and car parks are reached from private service roads.

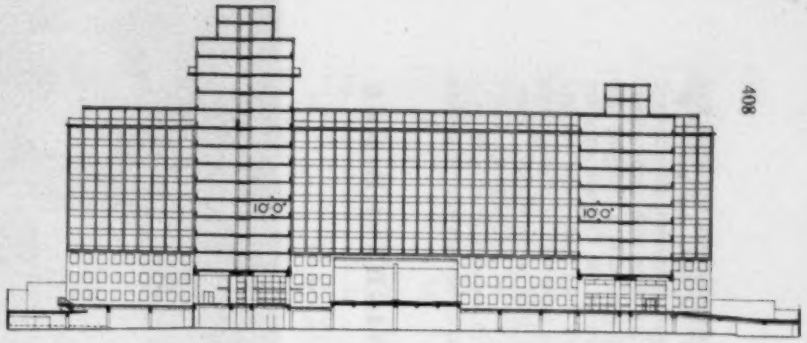
The building is planned in three main blocks: (1) Park block runs east/west 366ft with fine views over Hyde Park and distant hills. (2) A high tower of 17 floors. (3) A low tower on the east at the same roof line

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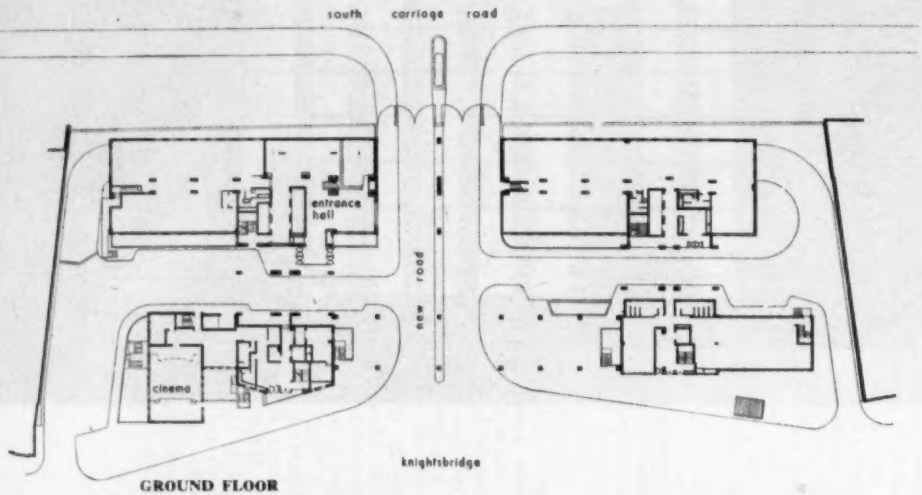
FLOOR 3



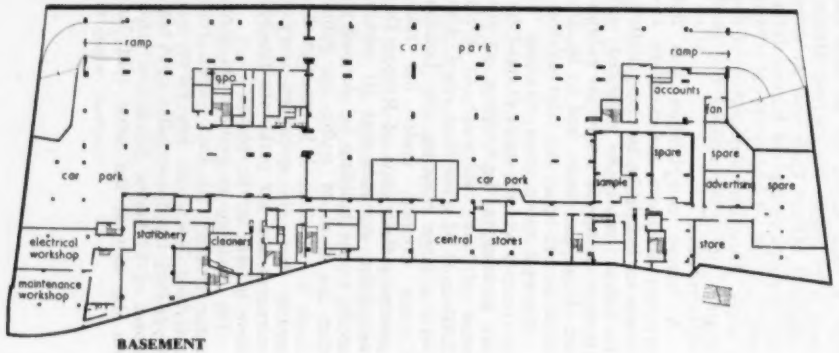
LONG SECTION

BOWATER HOUSE, KNIGHTSBRIDGE

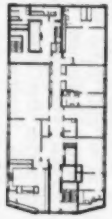
Plans of typical floors may be related to the general view of Bowater House below. Here we see the complex of slabs which are pierced at the centre to provide a new access to Hyde Park at the rear. Low linking blocks on the Knightsbridge frontage are designed as a "buffer" between the pedestrian and the high blocks: to reduce the "oppressiveness" of the tower hard on the pavement line and provide a visual build-up. The building is simply and straightforwardly detailed. As a foil it was decided to ornament it with a group of sculpture, and Sir Jacob Epstein is working on this. It will be in bronze, comprising a group of people moving swiftly towards the open spaces of the park. A woman, a man and a child. A figure of Pan playing on his pipes behind them, a leaping dog before them



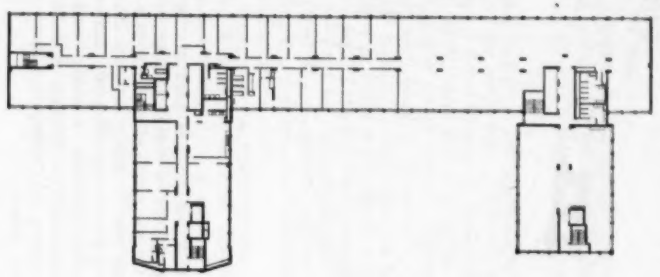
GROUND FLOOR



BASEMENT



FLOOR 14



FLOOR 9
SCALE: 1 IN=96 FT

BOWATER HOUSE



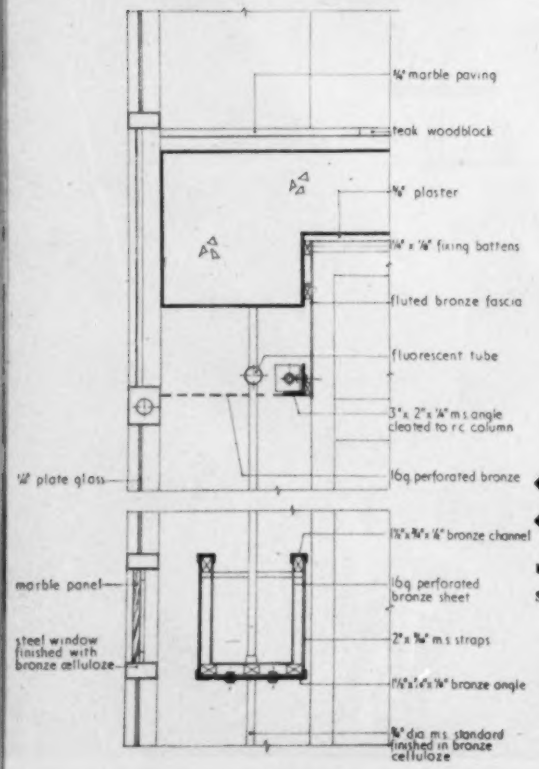
Above, looking towards the highest of the offices with Knightsbridge seen through the columns of the link block

as the Park block. In order that the great height and width of the buildings should not be oppressive to the passer-by, the architects designed smaller buildings, as links, along the Knightsbridge frontage. The centre portion of these blocks and Park block is supported on columns allowing a 70ft wide dual carriageway to pass underneath. Where it does so, the road is covered by a curving canopy which protects the building above from noise and fumes, and marks the road entrance visually.

A requirement of the London Fire Brigade, in a building of this size and height, is to have fire-fighting lifts which can be controlled, in an emergency, by the fireman. Such lifts have to open from a ventilated lobby from which is accessible a special fire-fighting staircase. There are two of these lifts, lobby and staircases; one for the high tower and one for the low tower.

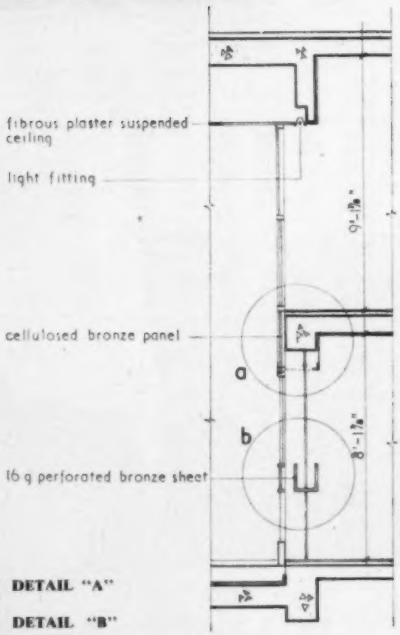
Construction

To achieve flexibility, it was decided that the ceilings of the office space must be beamless. This led to a system of reinforced concrete construction called the balanced canti-

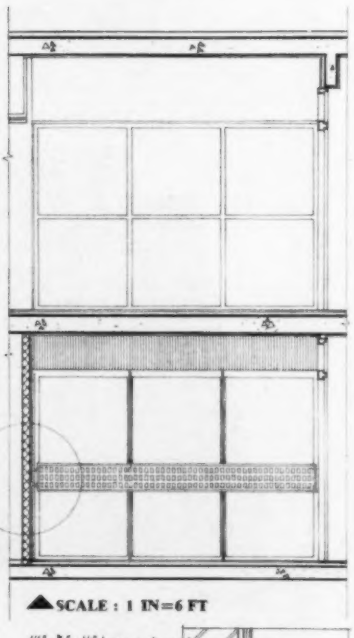


DETAIL "A"

DETAIL "B"

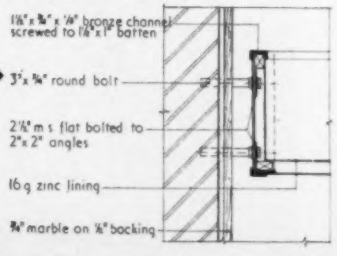


DETAIL OF WINDOWS TO LIFT HALL
SCALE : 1/16 F.S.



SCALE : 1 IN=6 FT

DETAIL "C"



lever. Two thirds of the weight is taken on the widely spaced internal columns, and one third on the external mullions which are spaced at 8ft centres.

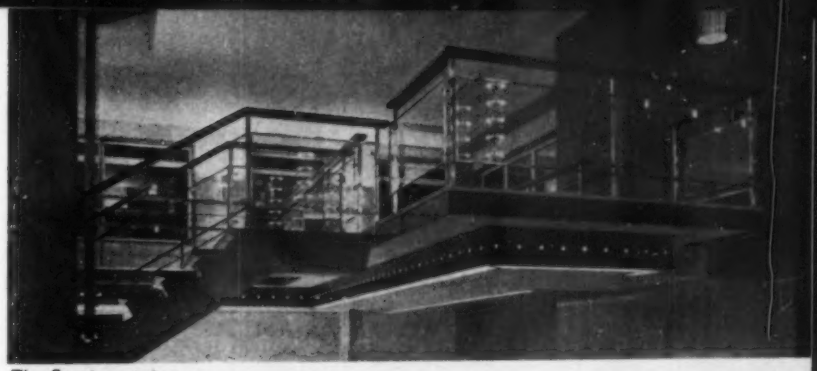
A major problem in designing high buildings demanding high speed lifts is the treatment of the lift over-runs and motor rooms. In practice these require a two-floor structure above the last floor served. These have been designed incorporating tank rooms, plant rooms and caretaker's flats as two-storey roof buildings echoing the main building below.

Services

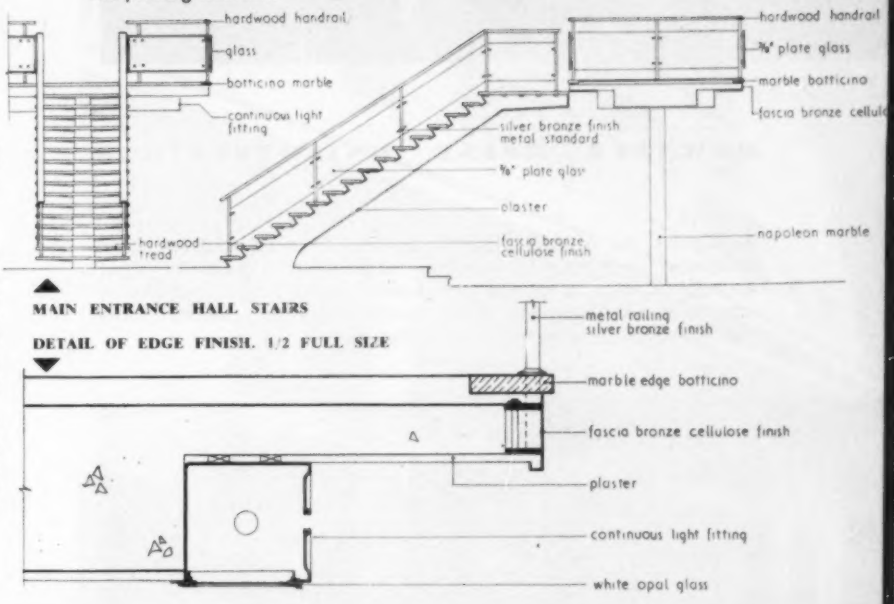
The heating of the building is entirely concealed. Hot-water pipes are embedded in the structural slab.

Materials

Glass curtain walls were considered and rejected. Natural materials were eventually chosen for colour, texture and permanence. The main cladding is thin, 1½in polished granite, the most durable material existing; one of the few that will maintain its polish permanently in London's gruelling atmosphere. Blue granite from Sweden, grey from Creetown on the west coast of Scotland and pink from Peterhead in the north-east of Scotland. All sawn and polished and



The floating staircase



The main entrance hall





BOWATER HOUSE KNIGHTSBRIDGE

Throughout the building, fast lift services, to avoid long horizontal circulation, unobstructed floor space, and flexibility in the positioning of artificial lighting, telephones and power points, provide freedom of internal plan arrangement. Above, the Hollerith room. Below, a social club room, and, bottom, one of the dining rooms





cut to size in Aberdeen. Grey bricks from Uxbridge, dark blue bricks from Tunbridge Wells and Portland stone for the low blocks and for copings.

Interior Planning

The building owners—The Land Securities Investment Trust Ltd.—leased the entire building to The Bowater Paper Corporation Ltd. They occupy two-thirds of the building and sublet one-third. The building is, therefore, called Bowater House, and is the London headquarters of the world-wide organization. At the top of the high tower are the principal boardrooms and chairman's suite and offices. This is marked on the outside by a balcony running along the east and west elevations.

Amongst other internal facilities, there is a private cinema and a social club.

Quantity Surveyors:
GARDINER and THEOBALD

Consulting Engineers:
BYLANDER and WADDELL

General Contractors:
TAYLOR WOODROW LTD.

Sub-contractors and suppliers:

Accotile Flooring in Basement: Korkoid Decorative Floors. *Acoustic Ceilings:* Roof Lining & Construction Ltd. *Acoustic Ceiling Supply:* The Bowater Sales Co. Ltd. *Artificial Stonework:* Girlings Ferro-Concrete Co. Ltd. *Asphalting:* The Rock Asphalte Co. Ltd. *Balustrading, Special Doors:* The Culford Art Metal Co. *Brickties, Slots and Column Grands:* The Abbey Building Supplies Co. *Bricks:* Cape Building Products Ltd.; The High Brooms Brick & Tile Co.; Richard Parton (Builders' Merchants) Ltd. *Burglar Alarm System:* Burgot Rentals Ltd. *Cinema Equipment:* G. B. Kalee Ltd.; R.C.A. Great Britain Ltd. *Clock System:* Telephone Rentals Ltd. *Document Elevator:* Sovex Ltd. *Electrical Work:* Troughton & Young Ltd *External Paving:* Fitzpatrick & Sons Ltd. *Fabrics:* Edinburgh Weavers. *False Ceiling Framing:* The Trussed Concrete Steel Co. Ltd. *Fixing Acoustic Tiles:* Rowan Boden Ltd. *Flagpoles:* Piggott Bros. & Co. Ltd. *Floor Laying:* The National Flooring Co. Ltd. *Floor Pavings:* G. & S. Allgood. *Furniture:* Hille of London Ltd.; Hall Engineering Ltd.; Maple & Co. Ltd.; A. J. Bird Ltd.; John Lewis & Co. Ltd. *Glass and Glazing:* James Clark & Eaton. *Glazed Notice Boards:* Wonder-signs. *Granolithic Work:* P. B. Industrial Flooring Ltd. *Granite:* Anselm Odling & Sons Ltd. *Granite Facings:* Brookes Ltd.; Fenning & Co. Ltd. *Hardwood Flooring:* Bennetts Wood Flooring Co. Ltd. *Hardwood Floor Supply:* Galders Ltd. *Heating, Ventilating, Plumbing:* Ellis Kensington Ltd. *Internal Telephone System:* The Automatic Telephones & Electric Co. Ltd. *Ironmongery:* Comyn Ching & Co. (London) Ltd. *Joinery:* The Builders Supply Co. (Hayes) Ltd. *Kitchen Fittings:* Benham & Sons Ltd. *Lettering:* Drakard & Humble Ltd. *Lifts:* The Otis Elevator Co. Ltd. *Lighting Fittings:* The National Electrical Supplies Co. Ltd.; Osler & Faraday Ltd.; Frederick Thomas & Co. Ltd. *Location Boards:* Russell Signs Ltd. *Marble Work:* J. Whitehead & Sons Ltd. *Metal Windows:* The Crittall Manufacturing Co. Ltd. *Mosaic Work:* Art Pavement & Decorations Ltd. *Office Lighting Fittings:* Falk Stadelmann & Co. Ltd. *Painting:* W. K. Brooker Ltd. *Painting and Decoration:* J. & B. Abbott (Contractors) Ltd. *Partitioning:* Luxfer Ltd. *Pavement Lights:* Lenscrete Ltd. *Plastering and Fibrous Plaster:* Jonathan James Ltd. *Plastic Lettering:* A. J. Binns Ltd. *Portland Stone:* The Bath & Portland Stone Firms Ltd. *Radiator Casings:* The Asent Engineering Co. Ltd. *Railings:* S. W. Farmer & Sons Ltd. *Reinforcement:* The Helical Bar & Engineering Co. Ltd. *Roller Shutters:* Haskins Ltd. *Sanitary Fittings:* Stitsons Sanitary Fittings Ltd. *Shelving, Racking:* Norwood Steel Equipment Ltd. *Signs:* Dent & Hellyer Ltd. *Slate Cills:* The Bow Slate & Enamel Co. Ltd. *Specialist Fittings in Entrance Hall:* Hibberd Bros. Ltd. *Specialist Furniture to Entrance Hall:* Aerofoam Ltd. *Specialist Interior Decorating:* W. Turner Lord & Co. Ltd. *Specialist Lighting Fittings in Entrance Hall:* Allom Heffer & Co. Ltd. *Specialist Metalwork:* G. Maile & Son Ltd. *Specialist Plastering:* Clark & Fenn Ltd. *Sprinkler System and Steel Roller Shutters:* Mather & Platt Ltd. *Steelwork for Cantilever Staircase:* Lindsay's Paddington Iron Works (1948) Ltd. *Terrazzo:* Zanelli London Ltd *Wall Tiling:* Carter & Co. Ltd.

THE ARCHITECT and Building News,
1 April 1959

THE CORN EXCHANGE, LIVERPOOL

Architect:
H. HINCHCLIFFE DAVIES
(HAROLD E. DAVIES & SON)
Consulting Engineers:
SCOTT & WILSON,
KIRKPATRICK & PARTNERS
Heating and Ventilating Consultants:
ERNEST GRIFFITHS & SON
Quantity Surveyors:
EDMUND KIRBY & SONS

THE new Corn Exchange in Liverpool replaces the old building which was completely destroyed in an air raid in May, 1941. The site is wedge-shaped, bounded by streets on all four sides and the building has three entrances.

Planning

The main accommodation is centred in the lower part of the building which, owing to the slope of the site, is three storeys high at the Drury Lane entrance and two storeys high at the Fenwick Street entrance.

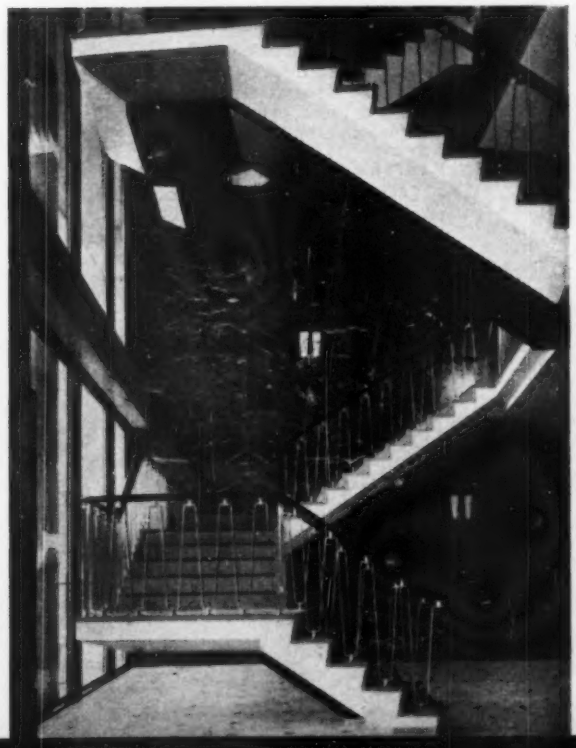
At first-floor level the building sets back in an I-shaped plan and rises for a further seven storeys. This block is rented out as offices, apart from the top floor, which belongs to the Corn Trade Association. Three more storeys will be added at a later date.

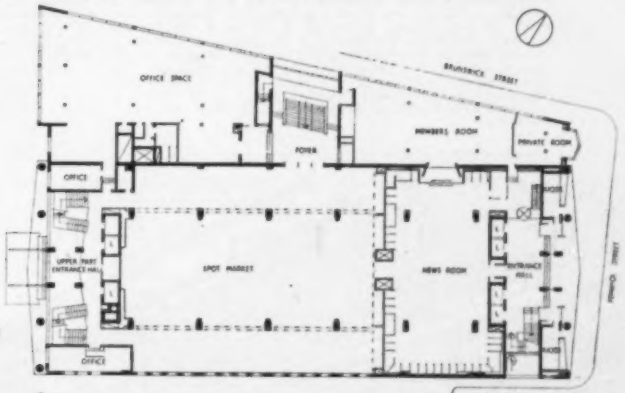
Principal accommodation consists of the Spot Market, which is used



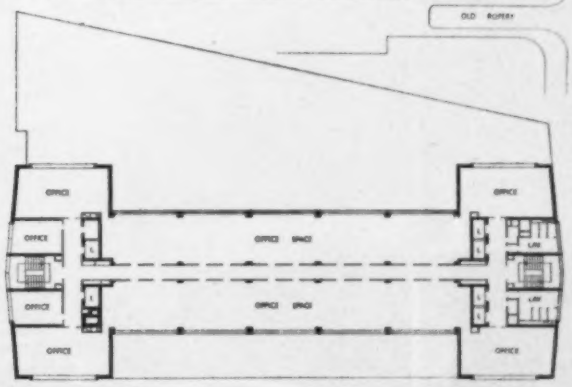
Corn Market entrance, facing north-west, to Brunswick Street

Entrance hall and staircase from Drury Lane





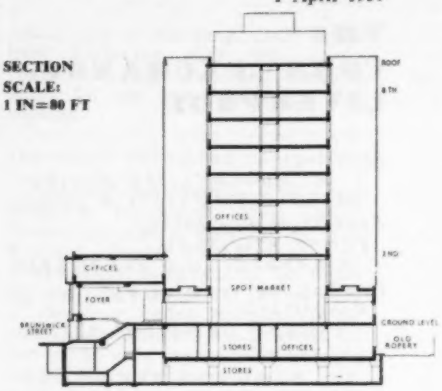
GROUND FLOOR PLAN



THIRD TO SEVENTH FLOOR PLAN

SCALE: 1 IN=80 FT





THE CORN EXCHANGE, LIVERPOOL

Corn Exchange viewed from the south over the temporary car park. This adjacent site has been bought by the building owners for a two- or three-storey car park, thus ensuring that none of the Corn Exchange offices will be overshadowed by tall buildings in the future

General Contractor: TYSONS (CONTRACTORS) LTD.

Sub-contractors and suppliers:
Acoustic Ceilings: W. F. Holloway & Bros. Ltd.; Wm. Beardmore & Co. Ltd. *Anodised Aluminium Balustrading:* Brookes & Co. (1925) Ltd. *Basement Goods Lift:* Etchells Congdon & Muir Ltd. *Boardroom Carpeting:* J. & R. Smith (Liverpool) Ltd. *Boardroom Furniture:* D. Matthew & Son Ltd. *Boardroom Panelling, etc.:* R. A. Stringer & Co. Ltd. *Boardroom and Committee Room Panelling:* Heaton Tabb & Co. Ltd. *Bronze Shopfronts and Entrances:* E. Pollard & Co. Ltd.; George Parnall & Co. Ltd. *Electric Fittings:* George Forrest & Co. Ltd.; Merchant Adventurers Ltd.; Troughton & Young Ltd. *Electrical Installations:* B. French Ltd. *External Balustrading:* Hughes & Ellison Ltd. *Faience Facings:* Shaws Glazed Brick Co. Ltd. *Granite and Greenstone Plinths, External Marble:* John Stubbs (Marble & Quartzite) Ltd. *Hardware:* Campbell & Mabbs Ltd.; Quiggin Bros. Ltd. *Heating and Ventilating:* C. Seward & Co. Ltd. *Interior Marble Facings:* John Stubbs (Marble & Quartzite) Ltd. *Members' Room Panelling:* Hickman Ltd. *Metal Windows:* Aygee Ltd.; Rea Metal Casements (1932) Ltd.; Williams & Williams Ltd. *Newsroom Panelling, Telephone Box Doors, etc.:* Eustace & Partners. *Newsroom Venetian Blinds:* Sefton Lift & Shutter Co. Ltd. *Noral Aluminium Facings:* Manchester Slate Co. Ltd. *Office Lifts:* Otis Elevator Co. Ltd. *Office Partitioning:* Williams & Williams Ltd. *Painting and Decorating:* Decorators Ltd. *Perforated Aluminium Ceiling Sheets and Perforated Steel Radiator Grilles:* G. A. Harvey & Co. (London) Ltd. *Plastering:* John Cothliff Ltd. *Plumbing:* The Merseyside Plumbing Co. *Portland Stone Facings:* Wm. Thornton & Sons Ltd. *Roof Waterproofing and Basement Waterproofing:* Wm. Briggs & Sons Ltd. *Rubber Flooring:* Korkoid Decorative Floors. *Silver Bronze Balustrading:* Culford Art Metal Co. *Stahlton Floor Planking:* Richard Costain & Sons (L'pool) Ltd. *Terrazzo Floors:* Conways Ltd. *Thermoplastic Flooring:* Rowan & Boden Ltd. *Tiling, Walls and Floor:* John Stubbs (Marble & Quartzite) Ltd. *Ventilating Ducting:* Henry Hargreaves & Son Ltd. *Wood Block Flooring:* Dixon Bros. (Bootle) Ltd.; Vigers Bros. Ltd. *Wrought Iron Balustrading:* Culford Art Metal Co.

South-west facade of new Corn Exchange along Drury Lane



for grain trading and the News Room. These two rooms are planned on ecclesiastical lines: a central "nave" extends through two storeys and has clerestory lighting and a single-storey "aisle" on each side has top lighting.

Construction

Reinforced concrete framework has been used for the office block with two rows of columns running down the central corridor. As large uninterrupted floor areas were required in the Spot Market and News Room, the columns are carried above these rooms by four prestressed concrete tied arches, which transfer the concentrated loads over the span to the external columns.

Finishes

Two cantilevered reinforced concrete "dog-legged" stairs form a structural feature in the entrance hall off Drury Lane; these are treated with terrazzo treads and balustrades of anodized aluminium. Internal columns, beams and lift walls in entrance halls are faced with light Botticino marble to contrast with the dark green Issorie marble on staircase walls.

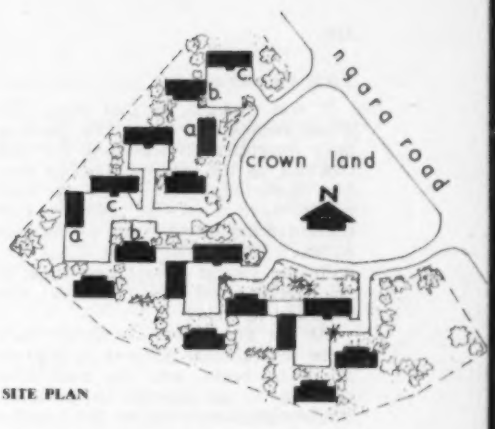
Services

Heating is by solid-fuel burning boilers, capable of conversion for oil fuel. The lower floors are heated by a combination of radiant and convected heat, whilst orthodox radiators are used in upper floors.

ASIAN HOUSING PROJECT, NAIROBI

Architect: IDRIS DAVIES

Architect-in-charge: B. D. WALDOCK



SITE PLAN

IN 1956 the City Council of Nairobi appointed Idris Davies to prepare a scheme for the accommodation of 112 Asian families. The first scheme produced consisted of several blocks of flats with intercommunicating galleries, but, because of the extent of the property, the city council decided that the scheme was more suited to groups of separate units distributed over the majority of the area of the property.

The architects took full advantage of this idea and, as can be seen from the site plan, grouped together three different types of blocks of flats, each grouping having its own car ports, drying yards and service areas.

Construction

The buildings were designed of reinforced concrete framed construction, with stone foundation walls and hollow clay block panel walls, solid floor bed, composite floor and roof slab, and isolated solid slabs to balconies and w.c. floors. Floors were finished with cement and granolithic pavings, walls and soffits plastered internally and externally, and three layers of bituminous felt roofing with a white mineralized surface. The external works comprised murram drives, parking areas and paths, enclosed courtyards paved with Premix, all at different levels, linked with steps and ramps and random rubble walls, pierced by arches.

For this scheme, the quantity surveyors estimated the cost to be in the region of £217,000 and, after approval had been obtained, tender documents were prepared and issued to tender to 15 contractors, of whom 11 were Asian contractors.

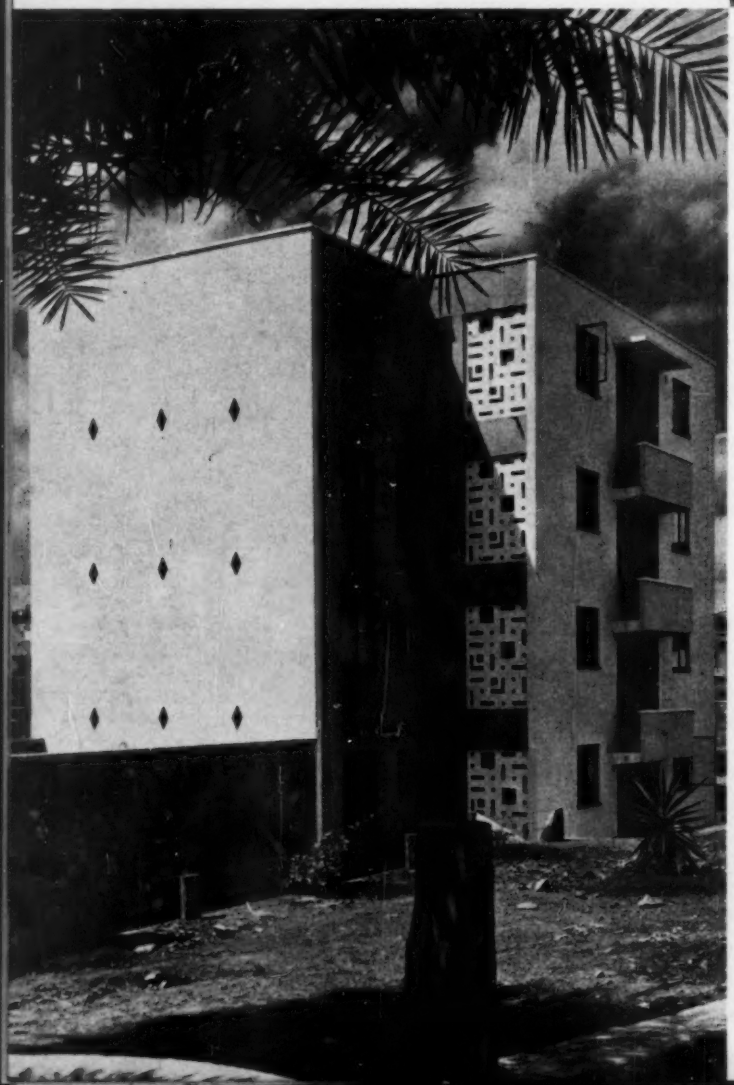


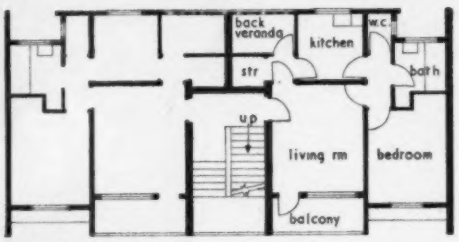
The Contract

It was thought, at that time, that Asian contractors would be particularly interested in tendering for this contract, as the scheme was for their own community, but, although their prices were keen, M. Notkin Ltd. submitted the lowest tender for the sum of Shs.: 3,814,061.42 (£190,703 1s 42c) with the lowest completion time of 56 weeks, and the contract was awarded to them.

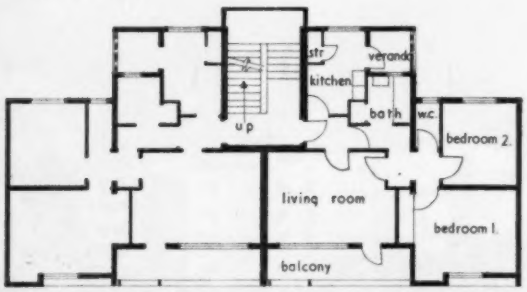
At the time of this contract there were several new projects in Nairobi about to begin, and the contractor decided to endeavour to complete this contract well before the completion date so that he would be able to tender competitively for the other new schemes. The city council had granted a bonus scheme for the early completion of blocks of flats and, with this financial backing, the contractor employed more labourers and artisans and organized a building programme which involved four groups of gangs, each with their own concrete mixer and hoist, working on a time schedule. There were four major points which speeded up the





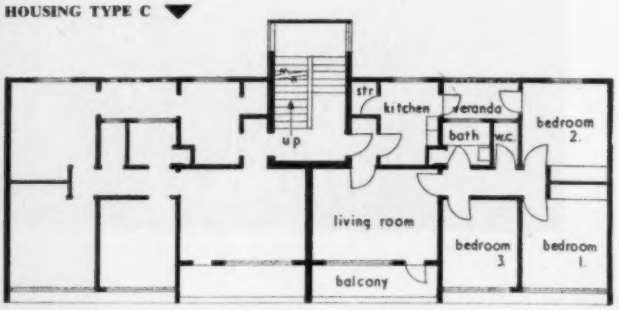


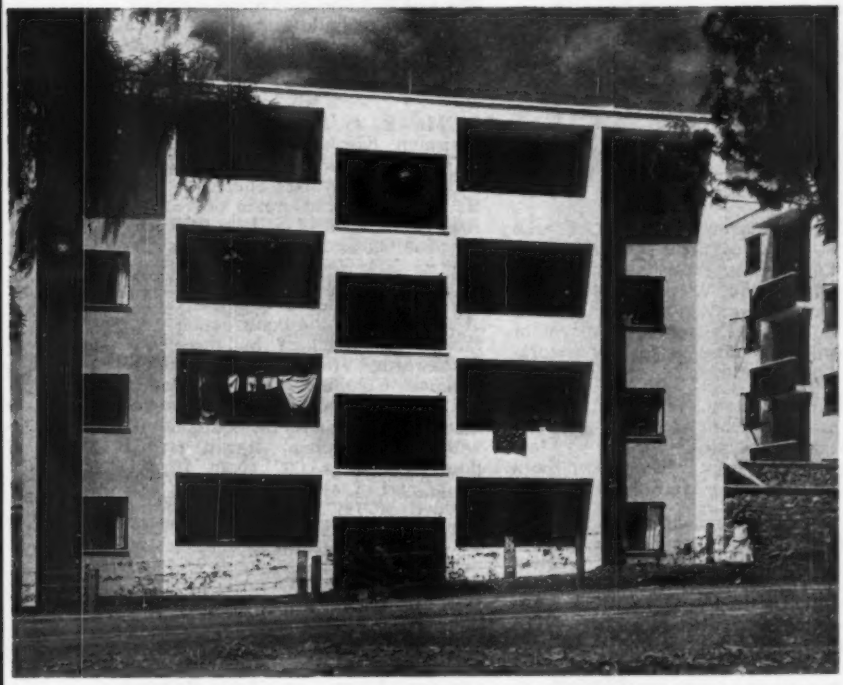
HOUSING TYPE A



HOUSING TYPE B ▲

HOUSING TYPE C ▼





A courtyard character has been deliberately developed by the architects in an effort to achieve architectural unity from the 17 individual blocks comprising the estate, and has been emphasized by linking up the blocks with random stone walls pierced by arches

ASIAN HOUSING PROJECT, NAIROBI

completion date for this scheme which were:

1. The use of pre-cast concrete composite floor and roof slabs.
2. Careful planning within the contractor's firm for work such as joinery and pre-cast concrete units being on site within the time required.
3. Careful planning of the building programme.
4. Extremely competent supervision of the building programme by the contractor's site agent, Mr. Salzer.

Costs

The final contract sum was Shs. 4,476,957.26 (£223,847 17s 26c) which gave a cost of Shs. 36 per super foot, excluding external works. The following are percentages of the various trades applied to the whole scheme:

Foundations up to underside of surface bed	4%
Concretor	35%
Waller	15%
Roofer	1%
Carpenter, joiner and ironmonger	9%
Founder and smith	5%
Plumbing and drainage	9%
Electrical installation	4%
Pavior and plasterer	10%
Glazier and painter	2%
External works	6%
	100%

Quantity Surveyors:
ARMSTRONG and DUNCAN

General Contractor:
M. NOTKIN LTD.



Industrial Notes

● The advisory committee of the English Joinery Manufacturers' Association, working in collaboration with the Timber Development Association, has set up a sub-committee to prepare a basic Code of Practice for timber curtain walling. Also, in collaboration with the T.D.A., a study is being undertaken into the prevention of soft rot in windows. The E.J.M.A. committee on windows and door frames is giving detailed consideration to the requirements in windows of local authorities and architects. The E.J.M.A. research advisory committee has urged the T.D.A. to undertake research and study of the moisture content of all the usual timbers in relation to their use, size and position in buildings and classified between various types of buildings.

● Mr. David F. Pilkington, the son of Col. Guy Pilkington, has been appointed a director of Pilkington Bros. Ltd., the glass manufacturers of St. Helens, Lancs.

● The General Electric Co. Ltd. have reduced prices for their Osram low-voltage G.L.S. lamps in 110 and 120V ratings, 40 to 500W. On the other hand, prices of 100 and 130V lamps have been increased. As a result of these changes, details of which are obtainable from the G.E.C., the prices of 110 and 120V lamps are now the same as those of standard 200/250V single coil G.L.S. lamps of the same voltage.

● Siemens Edison Swan Ltd. have reduced the prices of their Cambridge cooker control units. These reductions vary from 2s to 3s 8d, according to the type of unit.

● William G. Reynolds, vice-president, and Joseph H. McConnell, general counsel, have been elected executive vice-presidents of Reynolds Metals Co.

● Thos. Parsons & Sons Ltd., who recently moved their head offices to 70 Grosvenor Street, New Bond Street, London, W.1, have introduced a free-of-charge service whereby their studio will give advice and colour schemes on office or factory decoration on request.

● The Swinton Sunken Fire, manufactured by Hattersley Bros. Ltd., of Queen's Foundry, Swinton, Mexborough, Yorks, has now been approved by the Ministry of Power.

● The reinforced concrete Oxo tower at Blackfriars Bridge, London, was originally treated with a cement slurry. Severe surface erosion was recently noticed and the tower has been rendered with Mineralite. The renovation was carried out by Kendells Flooring Ltd.

● The first International Congress of manufacturers of the Omnia precast floor system will be held in Wiesbaden, Germany, from April 21 to 25, 1959, and will be attended by several hundred delegates from Western Europe.

● The new factory of H. J. Heinz Co. Ltd., at Kitt Green, near Wigan, will be opened by the Lord Chancellor, Viscount Kilmuir, on May 21. The new building, which has cost over £7,000,000 to build and equip, is the largest food factory in the Commonwealth, and will employ about 3,000 people.

● Mr. R. G. Soothill, the deputy chairman, has been appointed chairman of Turner & Newall Ltd. in place of the late Sir Walker Shepherd. Mr. R. M. Bateman, chairman of Turners Asbestos Cement Co. Ltd., succeeds Mr. Soothill as deputy chairman.

● Taylor Woodrow Construction Ltd. has been awarded a contract valued at £200,000 for the construction of a factory and ancillary buildings near Letchworth, Herts, for the International Computer and Tabulating Co. Ltd. The factory will be a single-storey structural steel-framed building, with brick cladding. It will have a floor area of 63,000 super ft, the major part of which will be laid with 5,100yd of 1in wood-block flooring. The architect is Hugh D. Roberts, F.R.I.B.A., A.A.DIPL.(HONS.).

● The Vitreous Enamel Development Council, whose new headquarters at 28 Welbeck Street, London, W.1, were officially opened on March 11, 1959, have opened another advisory bureau at 10-14 Princess Street, Newcastle upon Tyne (Newcastle 24011). The other bureaux are at Glasgow, Cardiff, Birmingham and Manchester. It is hoped to extend the service later on in the year, possibly to Belfast, Norwich and Aberdeen.

● A new building has been erected for the Legal and General Assurance Society Ltd., at 1/2 Duke Street, Brighton. It is a four-storey building, surmounted by a flat for the caretaker, and has a reinforced concrete frame clad externally with Portland stone to the front elevation and facing bricks to the rear. Architect: Ronald Fielding, A.R.I.B.A. Main contractors: Field & Cox Ltd.

● The ninth number of *Fidor Log*, the newspaper published by the Fibre Building Board Development Organisation Ltd., can now be obtained free of charge from Stafford House, Norfolk Street, London, W.C.2 (telephone: Covent Garden 3008).

● Mr. Robert Douglas Baird, a grandson of the founder of Baird & Tatlock (London) Ltd., has been appointed a director of that company and of Hopkin & Williams Ltd. In addition, Mr. R. T. Beasley has joined the B.T.L. Group of Companies as personnel manager.

Nearly 2,800 sq ft of Sylvalume, the Atlas wall-to-wall lighting system, was used for the stands of F. W. Wrighton & Sons Ltd., at the recent Earls Court Furniture Exhibition. Sylvalume covered the entire ceiling area of these two stands and provided an average lighting level of 55 to 60 lumens per sq ft. A special Atlas trunking system carried over 70 8ft 125W tubes and all their control gear



CORRECTION

The general contractors for the National Provincial Bank Ltd., Plymouth, were Humphreys Ltd., and not John Mowlem & Co. Ltd., as stated in the advertisement which appeared on page 36, A. & B.N., March 11, 1959.

THE ARCHITECT and Building News,
1 April 1959

THE LIGHTING CENTRE

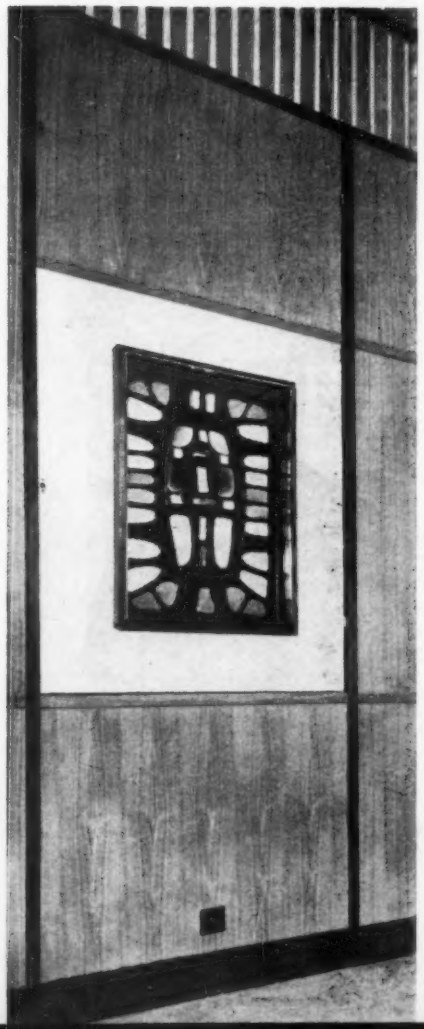
Architect: HULME CHADWICK

The British Lighting Council's new demonstration centre at Lancaster Place, London, W.C.2, has been designed to include as many lighting or lighted effects as possible, consistent with a unified architectural scheme. This council has been formed to help all who are in any way concerned with electric lighting, and to encourage the proper use of light in all its diverse applications to the ultimate benefit of the consumer in greater production.

Facilities are provided for examining commercial and industrial materials under the eight most used colours of light and their various combinations. There is a section for demonstrating the fundamental principles of light and vision, an area devoted to shop and domestic lighting and a photographic index containing details of several hundred fittings manufactured by supporting members of the council.



Demonstration area in the domestic section. General lighting is provided by a 40ft run of indirect cornice, containing hot and cold cathode tubes



◀ *One of the six decorative translucent panels, designed by Keith Godwin, A.R.C.A., R.B.A. Three of these are made from stained glass set in concrete and plaster, and three of coloured translucent plastic materials embedded in transparent resin*

Below, entrance to lighting centre. Staircase leads to lower ground floor which contains the commercial and industrial section and a committee room. Below right, selection of domestic light fittings in an illuminated display unit.





NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

Manually-operated Mixing Valve (A)

This company has introduced a new manually operated safety mixing valve designed for use in showers and washrooms. It is believed to be the only manually operated mixing valve obtainable which is capable of automatically shutting off the hot water delivery in the event of a cold water supply failure. A minimum head of 4ft is required for installations and hot or cold supplies can be arranged from either side. The sequence of opening the valve is shut-cold-tepid-hot and the maximum temperature at the outlet can be pre-set to approximately 110 deg F, whilst a high output of temperate water is available by finger-tip operation. There is a choice of either top or bottom outlet and the valve, which is of streamlined design, is finished in chromium plate.

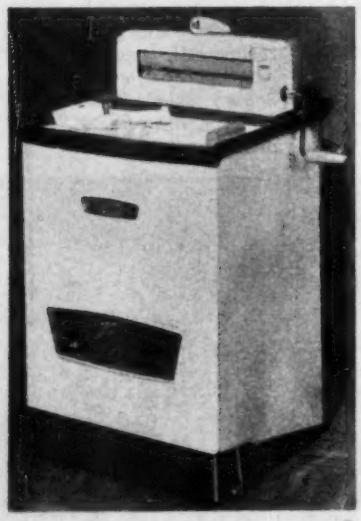
Meynell & Sons Ltd., Montrose Street, Wolverhampton. Wolverhampton 20297.

Readers' Information Service, Ref. A. Date 1/4/59.

★

New Gas Washer (B)

The latest addition to the Morley range of home laundry appliances is the 59 Plus gas washing machine. It has a full size fold-away Acme wringer and, when fitted with a hand-operated washer unit, available as an optional extra, will provide facilities for boiling, washing and wringing. The machine has a capacity of 11 gallons and yet will stow away under the sink draining board when not in use. It has rubber tyred wheels at the rear and silent-running castors at the front so that it can easily be moved if required. A drop down foot rest provides stability when wringing. Controls include a Hi-Lo heat selector which quickly brings the water to, and maintains, the correct washing temperature. The emptying tap is specially made for hose attachment and the flash-ignition tube has a mirrored observation post. The 59 Plus can be made ready for use in three simple operations: (1) By removing the table-top cover, which can be hung on the back of the appliance; (2) by opening the hinged inner lid to which the washer unit is also attached; (3) by lifting the hinged wringer upwards and locking in position. Exterior dimensions with wringer folded away and table top in position are approximately 31in high by 20in wide by 18in deep. With wringer raised, the height is 37½in. The 59 Plus is available with white or cream vitreous enamelled outer casing and table top cover, grey hammer finish stove enamelled plinth and boiler rim, and anodized control panel with chromium plated and plastic controls.



B

Morley Products (Padiham) Ltd., Institute Street, Padiham, Burnley, Lancs. Padiham 981.

Readers' Information Service, Ref. B. Date 1/4/59.

★

New Floor Tiles

Five new decorative tiles have been added to the Cerabos range of imported floor tiles. The new patterns, all in standard size of 6¼in by 6¼in, are available in the standard ranges of combinations of red, brown, buff, white and marbled effects. Each tile contains two contrasting shades, separated by a thin black diagonal line. The only exception is No. 424 which is in flame red and has a diagonal white line. The tiles can be formed into a wide variety of patterns to simulate large flooring units. The surface of these hard-wearing tiles is not disturbed by waxing, grinding or polishing, and under foot traffic they take on a semi-gloss finish which needs no polishing.

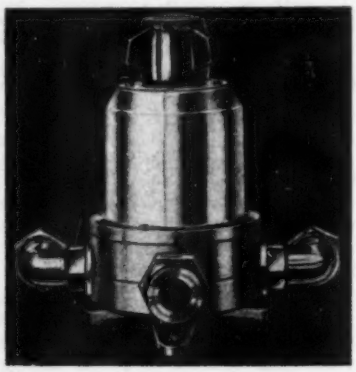
Ceradel Ltd., Essex Works, Ripple Road, Barking, Essex.

Readers' Information Service, Ref. C. Date 1/4/59.

★

New Gas Cooker (D)

A gas cooker with eye level grill is the latest addition to the New World range of such appliances. The Seventy Seven, as the new cooker is called, also incorporates a self heated warmer, four Radoflex boiling burners with automatic ignition, a capacious oven with drop door and removable top lining, storage drawer, and a four-hour timer. Construction of the cooker is based on a grey vitreous enamelled front frame. The bottom angle iron chassis members are fixed to this frame to serve as legs for the cooker and also to provide runners for the storage drawer. There is a short sheet metal plinth panel fixed to each of the angle sections. The oven assembly, which consists of vitreous enamelled pressed steel sides, bottom, top and back screwed and cemented together, is also screwed and cemented to the front frame. The oven, which is controlled by a combined Regulo and oven tap, is lagged with glass fibre blankets covered by aluminium foil, and is provided with two oven grid shelves, meat tin and cake tray. Hotplate burner taps are of the safety push-in type and each burner is pro-



A



D

vided with automatic ignition. The Seventy Seven is available in cream or white finish. A gas taper with matching handle and a 150 D.A. governor are fitted as standard. Dimensions: Overall: 60¼in high by 25¼in wide by 22¼in deep. Height to hotplate top: 31¼in. Warmer: 5¼in high by 21¼in wide bottom grid (22in wide top grid) by 12in deep. Hotplate: 22in wide by 17¼in deep. Oven: 16in high by 18in wide by 14in deep. Storage drawer: 5in high by 16¼in wide by 15½in deep. Nominal burner ratings (B.Th.U/hr): Small Radoflex—7,500; Large Radoflex—12,500; Grill—14,500; Warmer —1,800; Oven—12,000; By-pass—1,300.

Radiation Group Sales Ltd., 7 Stratford Place, London, W.1. Mayfair 6462.

Readers' Information Service, Ref. D. Date 1/4/59.

★

Dampness Preventative

Stroma, a brush applied damp removing and damp preventive solution previously only supplied to special order, is now available for distribution through normal merchant/retailer channels. It is claimed that the product will drive out existing damp, damp-proof materials which are already dry and is a suitable treatment for both horizontal and vertical surfaces of brickwork, stone, concrete, roughcast and plaster. It may be used for combating rising damp in walls, as a damp-proof membrane on screeded or concrete floors and under wood blocks, linoleum, plastic tiles and other composition floors. Stroma is stated to penetrate the material to which it is applied, in some cases to a depth of 9in, thus forming a damp-proof barrier in depth. Further claims are that it cannot damage the surface to which it is applied, will not affect any subsequent covering such as paint, plaster or paper and has an effective life of 20 years. Two types are available: (1) A colourless solution for external surfaces which has the additional properties of being soot and dirt resistant; (2) a tinted solution for internal applications or where preservation of the original colour of the treated surface is not important. It leaves a whitish tinge which can largely be removed by using a stiff brush when dry.

Brearley Concrete Units Ltd., Water Repellent Division, Brearley Street, Birmingham, 19. *Aston Cross* 4371.

Readers' Information Service, Ref. E. Date 1/4/59.



G

★

New Thermostatic Water-Mixing Valve (F)

This company is now producing a new thermostatic water mixing valve, known as the Protecta. The required temperature should be preset on the dial control and thermostatic control is maintained by means of an alcohol element, a departure from the bi-metallic strip common to most other mixing units. It is claimed that as long as hot water above the temperature set on the dial is entering the unit, the out-flowing water is guaranteed to be at the required temperature, as fluctuations in temperature and pressures on the pipes are absorbed by the fitting. The Protecta can be used either as a sink unit, shower and bath unit or for wash basin, shower and bath combined, according to the size of valve employed. The present range of valves is from ½in to 1½in.

*Belco Manufacturing Co. (1939) Ltd., 63 Ebury Street, London, S.W.*1.

Readers' Information Service, Ref. F. Date 1/4/59.

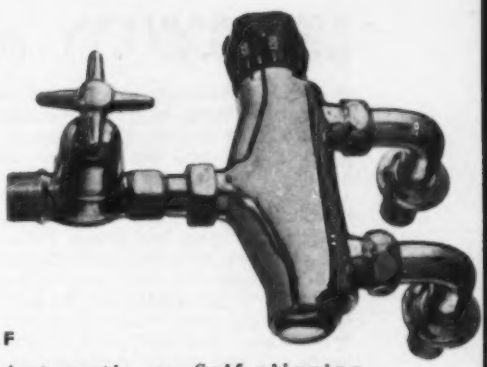
★

New Woodworm Injector and Sprayer (G)

A new woodworm injector has been added to the Fetcham range which, in addition to providing pressure injection similar to the old model, can be used for spraying in awkward positions. This is achieved by unscrewing the patented nozzle and replacing it with the spray nozzle provided. It has been specially designed for large scale work where deep penetration is required on heavy section timbers. It is claimed to do away with the necessity of drilling holes, in addition to the flight holes, in such timbers that have been infested with the Death Watch Beetle. The new model is simple to operate since a few strokes on the fitted pump will provide sufficient pressure to make it ready for injecting and spraying. Occasional repumping is necessary to maintain the pressure. It is claimed that the nozzle will not increase the size of the woodworm hole and a special rubber washer ensures that the fluid will not spill out of the hole.

Rentokil Ltd., Fetcham, Leatherhead, Surrey. Leatherhead 4021.

Readers' Information Service, Ref. G. Date 1/4/59.



F

Automatic or Self-aligning Levels (H)

The technical and production staffs of these two companies have collaborated in the design and development of a new form of optical stabilizer which can be incorporated in the telescope of a surveyor's level to provide automatic compensation for any small errors in levelling. Once the instrument has been approximately levelled by means of the circular spirit vial, the stabilizer sets the line of sight precisely and speedily in a horizontal plane. The method of compensation does not depend upon any need to magnify mechanically the residual tilt of the instrument, but obtains the equivalent correction by purely optical means. The moving part of the compensator carries two reflecting prisms and is suspended by four flexible metal strips forming a frictionless yet robust flexure-pivot. It is claimed that the pivot can be operated for an infinite number of times and yet will return unfailingly to the correct position and allow the compensator to come to rest in the vertical plane with a sensitivity of less than a second of arc in a fraction of a second of time. The flexible metal strips of the pivot have a constant modulus of elasticity and a safety factor of 350/1. Total movement of the swinging part of the compensator is restricted to 20 minutes of arc by a damper which also serves to take the weight of the swinging prism mount when the instrument is



H

E

NEW PRODUCTS (continued)

in transit. The telescope is of the internal focusing type so that the stabilizer can be housed between the focusing lens and the reticule. By means of the prism system, an erect view of the measuring staff is seen by the observer. Each company has designed its own instrument around the common telescope and identical stabilizer unit and each has its own approach to the solution of the problems of mechanical design. In general appearance, however, both instruments are not unlike a conventional surveyor's level. Each has a three-screw levelling base, circular bubble for preliminary levelling, azimuth clamp and tangent screw, and optional horizontal circle. Also a parallel plate micrometer can be provided, havin ga range of 0·02ft for measuring the interval between the reticule line and the nearest division of the staff directly to 0·001ft. It is claimed that the levels are consistently accurate between temperatures of −30 deg C and +50 deg C and that an accuracy of 0·02ft per mile is easily reached, whilst with a little extra care an average closing error per mile of 0·004ft is attainable. Telescope magnification: ×32. Aperture: 1⅝in. Field of view: 1 deg 20 min. Short focusing distance: 6ft. Accuracy of stabilizer: 1 sec of arc. Weight: 6/6¼lb.

Cooke, Troughton & Sims Ltd., York. York 24122.

Hilger & Watts Ltd., 98 St. Pancras Way, London, N.W.1. Gulliver 5636.

Readers' Information Service, Ref. H. Date 1/4/59.

★

Electronic Strip Chart Recorder (I)

The Mark 3 Multelec high-speed electronic strip-chart indicator-recorder is the latest addition to this company's general industrial range of instrumentation and control. It is at present available for the precision measurement of millivoltage, and also temperature in association with thermocouple resistance thermometer or radiation pyrometer. Features of note are an operating speed of two seconds only for full scale travel, with no pointer overshoot; all mains operation; redesigned chart-drive unit which allows variation of chart speeds from 1in per hr to 4in per min; 10in chart width and pen-travel; sensitive high gain amplifier, covering a wide range of a.c. or d.c. input conditions; and a synchronous converter capable of detecting smaller signals than any other available. The Mark 3 can be obtained in single- or multi-point form, with point-cycle times of 5, 10 or 20 seconds, enabling up to 16 variables to be measured and recorded consecutively.

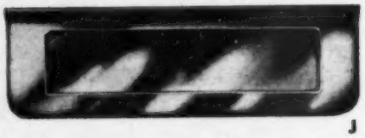
George Kent Ltd., Luton, Beds. Luton 2440.

Readers' Information Service, Ref. I. Date 1/4/59.

★

New Finish for Builders' Ironmongery (J)

This manufacturer has introduced a new standard finish, known as the K-Grey, which is to be applied to their entire range of over 150 patterns of builders' ironmongery. It is a stove-painted French grey, and the change is made without any increase in price. The new finish is stated to be superior in appearance, adhesion and protection to normal painted finishes and it also will serve as a suitable undercoat for subsequent painting when required. Vitreous enamelled and other special finishes will still be



J

supplied, if specified, but the black finish will be discontinued. Letter plate no. 68, designed by Robert Cantor, M.S.I.A., is the subject of our illustration and this item is available in the new finish. A new catalogue, showing the company's entire range, is in course of preparation and should shortly be available.

Archibald Kenrick & Sons Ltd., West Bromwich, Staffs. West Bromwich 0212.

Readers' Information Service, Ref. J. Date 1/4/59.

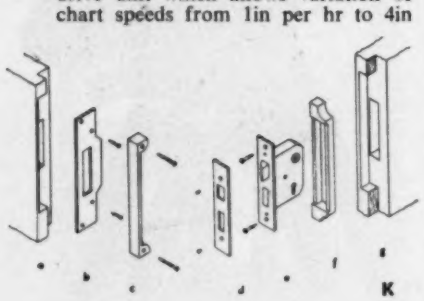
★

Reversible Rebated Fore-end Set (K)

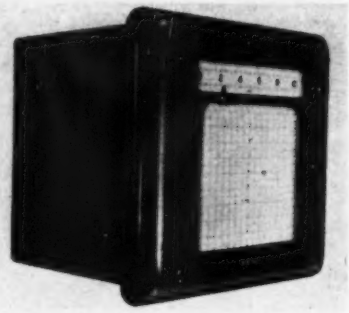
This company has introduced a reversible rebated fore-end set which will convert a Yale standard plain fore-end mortice lock into a fully rebated lock of either hand. Our illustration shows a complete assembly of lock and fore-end set consisting of the following parts: (a) rebate in door jamb; (b) striking plate; (c) rim section; (d) plain fore-end; (e) mortice lock; (f) rebated fore-end; (g) rebate in door. These aluminium fore-end sets can be supplied as separate items. The standard rebate is ½in but other rebates from ¼in to ¾in in ⅛in. stages are available on request.

The Yale & Towne Manufacturing Co., Willenhall, Staffs. Willenhall 145.

Readers' Information Service, Ref. K. Date 1/4/59.



K



I

New Universal Adhesive

A new Polybond universal adhesive has been produced which enables a wide variety of materials to be bonded together by mere contact and without pressure. It is claimed that the new product does away with the disadvantages found with some other contact or impact adhesives that work has to be exactly positioned because the two components cannot be moved once they are brought together. The new adhesive gives an instantaneous bond on contact at right angles to the job, yet enables complete freedom of movement in the plane of the job. This means that there is ample time for moving the object into its correct position and yet it cannot be removed from the surface. The material is free running, clean to use and insensitive to heat. Examples of the application of Polybond include the fixing of floor and wall tiles to surfaces such as concrete, plaster and wood; the fixing of expanded polystyrene panels for ceilings; fixing plastic panels and sheets to all surfaces; and the fixing of metal sheets such as steel, aluminium and lead to concrete, plaster, wood and bricks. Price: 55s per gallon, i.e., less than 1s 6d for sticking a sq yd of tiles, Formica or Jablite.

Polybond Ltd., 16 Gloucester Place, London, W.1. Hunter 1341.

Readers' Information Service, Ref. L. Date 1/4/59.

★

Modified Loading Shovels

The Loadmaster loading shovels are now available with fully automatic transmission and torque converter. The installing of this transmission reduces the number of foot controls to two, brake and accelerator, and the gear lever is replaced by a forward and reverse shift lever. This simplification of controls reduces the time taken for a full operating cycle as well as reducing operator fatigue. The torque converter proportions the power to meet the load conditions and reduces shock loads to the engine and transmission.

Chaseside Engineering Co. Ltd., Station Works, Hertford.

Readers' Information Service, Ref. M. Date 1/4/59.

CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review butshould be confirmed.

1 April 1959

AGGREGATES AND SAND

1½in—all in—ballast	26/6	Yard cube
¾in do. do.	27/–	delivered
¾in screened shingle	23/9	(in five-yard
⅜in do. do.	24/6	loads or
¼in granite chippings	50/–	more)
Sharp washed sand	27/–	
Pit sand	24/–	
Building sand	23/3	
Broken brick	21/–	
1½in shingle	22/–	
Cartage of muck	10/–	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	112/–
Do., from 1ton to 5ton 19cwt do.	124/–
Do., Rapid hardening (6ton lots)	122/6
Do. (but 1ton to 5ton 19cwt)	134/6
Cement "Aquacrete" (do.)	156/6
Do., "417" or "Polar" (do.)	156/6
Do., "White" 1ton (lots)	277/6

LIME—	134/6 (1ton loads) deliv'd			
Hydrated	including	132/–	(2/3 do.)	do.
White	Bags	122/–	(4/5 do.)	do.
		120/–	(6 do.)	do.

PLASTER—	
Keenes, coarse, pink	234/– ton
Do. do. white	239/– do.
Sirapite, do.	175/– do.
Do. finish	183/3 do.
Hardwall, do.	174/– do.
Plaster, coarse, pink	164/6 do.
Do. do. white	174/– do.
⅜in Gypsum Plaster Lath ex works (600sq yds)	2/5 sq yd.
⅜in Do. do. Wallboard do.	2/8 do.
3½in Jute scrim (100yd roll)	9/4 each
Cow hair (under 3cwt)	109/– cwt

FIRECLAY—	
In non-returnable bags (1ton lots)	213/– ton delivered
Fire cement	12/3 14lb

BRICKS

BACKING BRICKS (in truck loads)—		
Flettons	118/– per	1,000 delivered
Do. Keyed	120/–	do.
Do. bullnose	152/6	do.
Blue wirecuts (Net)	542/–	do.
White	202/–	do.
Southwater engineering (Class A)	400/6	do.
Firebricks—2½in	95/9 per	100 delivered
Do. —3in	115/-	do.

STOCK BRICKS—		
Mild stocks	109/– per	1,000 at Works
Second, do.	268/6	do.
First, do.	294/6	do.

Add for delivery—approx. 55/– per 1,000 in lorry loads.

FACINGS (ex truck or lorry)—		
Rustics	150/– per	1,000 delivered
White	220/–	do.
Blue pressed, 2½in (Net)	604/–	do.
Do. bullnose	618/–	do.
Reds (Multi sand faced)	370/–	do.
White glazed stretchers	1696/–	do.
Do. headers	1670/–	do.
Do. bullnose	2120/–	do.
Do. double stretchers	2053/–	do.
Do. double headers	2173/–	do.
Breeze fixing bricks	30/3 per 100	
Fire tile and lumps	34/– ft cube	
Wall ties—8in by ⅞in by ⅛in, galvanised	83/9 per cwt	
Cement mortar (1 : 3) hand-made	93/6 yd cube	

BRICKLAYERS' SUNDRIES—

AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta do.	1/2	2/4	5/7	11/1
Chimney pots, Terra	1ft	2ft	3ft	4ft
Cotta (11 to 24) do.	8/7	14/11	34/1	58/11

PARTITIONS—

18in by 9in Blocks keyed for plastering			
Per yd super in 6ton lots	2in	2½in	3in
In solid clinker including any half blocks	3/9	4/4	5/3
In cellular clinker blocks	3/11	4/7	5/3
In hollow clay blocks	—	4/5	5/5
Clinker blocks in small quantity	6/–	6/11	8/4

Intermediate quantities in all types may be had at intermediate prices.
Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS—
Fireclay white glazed in and out—standard quality

	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow, 6in deep	69/6	86/6	96/–
Belfast, plain edge, 10in deep	82/6	137/6	185/6

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—

	Foot lineal Straight	Each Bends
9in diameter	4/8	14/–
10in do.	5/8	17/–
12in do.	10/9	32/9
9in diameter, beaded end, 12in high		6/3

FLUE PIPES AND FITTINGS—

	4in	5in	6in
Heavy asbestos type, 6ft length	18/6	25/6	32/6
Do. 3ft length	9/3	12/9	16/3
Do. bends	7/2	9/–	10/8
Light asbestos type, 6ft lengths	16/–	20/–	25/6
Do. 3ft length	8/–	10/–	12/9
Bends	5/7	7/1	8/8
Baffler	15/5	18/4	19/4

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

ORDINARY TYPE—Each	4in	6in	9in
Pipes in 2ft lengths	3/4	5/–	9/–
Bends	5/–	7/6	20/3
Junctions (4in on 4in, 6in on 6in, 9in on 9in)	8/4	12/6	27/–
Gullies with 4in outlets	12/6	13/9	22/6
4in horizontal inlets	4/–	4/–	4/–
4in vertical do.	6/–	6/–	6/–
Black iron grids	1/6	2/10	5/6

Adjustment to Current Cost

	2ton lots or more	Less than 2ton lots
2in to 9in diameter "Best" pipes and fittings.	50 pieces or more	Under 50 pieces
Percentages to add	—22½%	—5% NET

Further percentages to be independently added in respect of: British Standard pipes, etc., 10. "Best" Tested pipes, 37½ British Standard Tested, 47½.

IRON DRAINAGE GOODS— Each	4in	6in
Cast iron pipes, 9ft long	84/6	123/9
Do. 6ft do.	60/4	92/10
Do. 4ft do.	46/1	71/2
Do. 2ft do.	28/–	42/2
Short bend	19/–	50/7
Junction	33/8	70/6

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued

GULLEY PARTS—	4in	6in	
Traps, high level, invert	33/8	91/4	each
Inlet, bellmouth pattern	17/8	35/7	do.
Do. with one vertical branch	31/–	58/2	do.
Do. with two do.	84/–	122/3	do.
Extra for sealed cover	10/8	13/10	do.

RAINWATER SHOES—	4in	6in	
With vertical inlet and rebated top	44/1	87/9	each
Extension piece	19/4	23/3	do.
Flat loose coated grating	4/7	4/7	do.
Loose solid coated cover	6/2	6/2	do.

MANHOLE CHANNELS, WHITE GLAZED— Each	4in	6in	9in
Straight, 2ft long	16/6	24/2	40/9
Taper, do.	27/6	27/6	41/9
Bends, main, half section	32/–	46/3	76/–
Do., branch, do.	19/10	27/6	—
Do., do. three quarters, do.	27/6	44/–	—
Junctions, single	26/5	46/3	—
Do., double	36/3	62/9	—

BROWN GLAZED CHANNELS— Based on standard list (less than 100 pieces)	4in	6in	9in
Half-round main channel (2ft long)	2/8½	4/–½	7/4
Extra for step ends	2/8½	4/–½	7/4
Extra for outlets	5/4½	8/–¾	—
Channel bends with splayed ends	8/–¾	12/1½	—
Three-quarter section do.	10/9	16/1½	—

MANHOLE COVERS—	Black
24 by 18in foot traffic	29/3 each
Do. Strong do.	53/9 do.
Do. Light car traffic	95/3 do.
Do. Road traffic	119/3 do.

SUNDRIES—	Galvanized
Manhole steps	9/3 each
4in Mica valve fresh air inlets	16/– do.
Plumber's hemp	9/– per lb
Gaskin, caulking	1/5½ do.
Canvas backed hair felt, 4in wide	9d per ft run

ROOFING MATERIALS

WELSH SLATES (delivered)—

Sizes in inches	Full Loads per 1,000	Quantity 500 to 599 per 100	1 to 49 per doz
22 by 11	2246/–	265/–	39/–
20 by 10	2021/6	237/6	35/–
18 by 10	1413/–	164/6	24/3
16 by 10	1120/–	131/–	19/3
14 by 9 Damp Course	668/–	70/9	10/6
14 by 4½	328/–	31/–	4/9

TILES (Brosley and Staffordshire)—	per 1,000	per 100
10½in by 6½in Machine made, 6 ton lots	302/6	44/9
Do., hand made, sand faced (Berks red)	327/–	58/–
Hips, valleys and angles	36/3 per dozen	
	per 1,000	per 100
Plain concrete tiles	210/6	25/6

Sheeting asbestos corrugated, 6in pitch	3/3¾ yd super
4½in by 16 gauge, drive screws (galvanized)	17/9 gross
7½in by ⅜ hook bolts and nuts (do.)	57/9 do.
Washers, round, flat galvanized	4/3 do.
Do. do. bituminous	2/– do.

ROOFING FELT—	
Sanded bitumen felt (44lb)	1/1 yd super
Do., but 60lb in weight	1/7 do.
Inodorous felt, best quality	2/11 do.
Do., second quality	2/3 do.
Underlining	1/8 do.
Sheathing	1/8 do.
Galvanized felting nails	2/4 lb

THERMAL INSULATION—	
¾in Insulating Gypsum Baseboard (600sq yds)	3/– sq yd
¾in Do. Do. Lath do.	3/– do.
¾in Do. Do. Wallboard do.	3/3 do.
¼in Asbestos (Fully-compressed) Sheet	8/4 do.
½in Insulating Cork Slabs	7/6 do.
Silicate Cotton (2ton lots)	1/6 ft cube

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.

Monks Park 9/7 St. Aldhelm 10/10
Portland brown Whitbed 9/2
Doulting 10/2 Beer 9/–

TIMBER

Softwood—sawn—random lengths.

	Per standard	Per cubic ft
Carcassing quality	£105	12/8
Joinery quality	£125 and up	13/4

Plain edged unsorting flooring per square	¾in 90/–	1in 110/–	1¼in 138/–	1½in 165/–

⅛in Hardboard (7 yds. sup.) 5/3 sq yd.
Larger quantities cost less.

SUNDRIES—	Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each	¼in	10d	1/2	1/5
	⅜in	1/3	1/8	2/1
	½in	1/9	2/4	3/–
Sashline, hemp, good quality Per yd Run		No. 6 10d	No. 8 1/1½	No. 10 1/5
Floor brads				84/3 per cwt
Cut Clasp Nails				85/6 per cwt
Steel ordinary screws	1in No. 8	3/8	2in No. 8 6/3	per gross
Brass, do.	Do.	9/5	Do. 16/7	per gross

HARDWOOD. Normal joinery quality.		Per ft cube
Mahogany, African	Square edge	30/–
do. Honduras	do.	66/–
Teak, Burma and Siam	do.	78/–
Walnut, Australian	do.	84/–
Oak, English	Sawn Logs	42/–
do. Yugoslavian	do.	47/6
Walnut, African	do.	25/–

BUILDING BOARDS

Description	Rate	Unit
16mm Birch blockboard	202/–	Per 100ft
22mm do. do.	242/–	
Austrian Mahogany faced one side, blockboard 18mm thick	348/–	super,
Austrian figured Oak faced one side, blockboard 19mm thick	407/–	but
Beech, 6mm plywood	108/–	from one board
Birch, do. do.	83/–	
Do. 9mm do.	120/–	up to
Teak faced one side, plywood 6mm thick	374/–	a
Austrian figured Oak one side, 6mm	229/–	
Australian do. Walnut do. do. ⅜in	383/–	bundle

IRONMONGERY

	2in	3in	4in	5in	6in
Cast iron Butts, per pair	1/4½	2/4	3/7	6/11	9/8
Hinges, spring, single action regulating, japanned, each	—	8/3	12/9	16/9	22/3
Do. but double action spring only, each	—	17/6	22/3	21/–	35/9
Do. blank only, each	—	10/3	14/–	28/–	24/3

HOPE'S WINDOWS

COMPLETELY REVERSIBLE

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REVERSIBLE COMPLETELY REVERSIBLE

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in Standard Sizes

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Smethwick, Birmingham & 17 Berners St., London, W.1

MEMBER OF THE METAL WINDOW ASSOCIATION

At Bowater House Knightsbridge

Decoration by Abbott of Harrow

Other recent important painting contracts have included the Passenger Handling Building and the Queen's Building at London Airport Central, Grosvenor House Hotel Extension, Western House, Ealing, and many other important new projects for Taylor Woodrow Construction Ltd.

J. & B. ABBOTT (Contractors) Ltd

Approved Painting Contractors to Admiralty, War Office, Air Ministry, Ministry of Works and U.K.A.E.A.

SHERBOURNE HOUSE, NORTHOLT ROAD, HARROW, MIDDLESEX.

Telephone Number BYRon 5551-5

CURRENT MARKET PRICES *(Continued)*

IRONMONGERY—*Continued*

	12in	18in	24in	30in	36in
Tee hinges (japanned) per pair	2/–	3/10	—	—	—
Do., but stronger, per pair	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair	—	—	13/4	16/3	24/10
BOLTS—each—	**3in**	**4in**	**6in**	**8in**	**10in**	**12in**
Cabinet, barrel, straight or necked	1/6	1/8	2/3	—	—	—
Square spring, with brass knob	1/4	1/6	1/11	—	—	—
Tower bolts	—	1/10	2/8	3/6	4/5	5/2
Barrel bolts	—	2/9	4/–	5/2	6/8	8/1
Add to Tower or Barrel bolts if necked	½*d*	¾*d*	1*d*	1*d*	1*d*	1*d*

LOCKS—each—

Rim lock, 2 lever, wrote case, brass bolt and bushing	12/9	Brass furniture	5/–
		or Bakelite do.	3/3
		Bakelite finger-plates	2/8
Mortice lock, 2 lever, bushed	12/9	Brass furniture	8/9
		or Bakelite do.	3/10
Cylinder latches, japanned case			16/–
Brass sash fastener		each	5/–
Casement fasteners (malleable)		do.	1/7
Do. stays (do.)		do.	2/2
Axle pulleys (brass face, iron wheel) 1¾in		do.	3/10
Do. as last, but with brass wheel 1¾in		do.	6/8
Sash line, No. 8 Anchor, yellow label		per yard	1/–

METAL GOODS

British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in)	£43/10/0 per ton
Extra cost over basis for following sections—	
9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6½in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in	10/– per ton
5in by 4½in, 7in by 3½in, 13in by 5in	15/– do.
12in by 5in, 22in by 7in	20/– do.
6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in	25/– do.
4in by 3in, 10in by 4½in	30/– do.
5in by 2½in, 5in by 3in	35/– do.
6in by 3in, 24in by 7½in	40/– do.
3in by 3in	50/– do.
4½in by 1¾in	65/– do.
3in by 1½in, 4in by 1¾in	70/– do.
1in mild steel reinforcing rods ex mill d/d	£41/9/0 do.
Extras per ton	
⅞in or ¾in diameter in size	15/– per ton
⅝in	30/– do.
½in	62/6 do.
⅜in	92/6 do.
5/16in	132/6 do.
¼in	172/6 do.
Extras for length	
5ft to 3ft	7/6 do.
3ft to 2ft	15/– do.
2ft	22/6 do.
40ft to 45ft	15/– do.
45ft to 50ft	22/5 do.
Bolt and Nuts	112/– per cwt
Trench covering, including trays 1½in deep and rebated frames, 9in wide	25/– foot run
Do., but 12in wide	27/– do.
Do., but 14in wide	30/– do.
Do., but 18in wide	39/– do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows	33/– per ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations	54/– do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base	55/– each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.

2in mesh	Height in inches— 36	42	48	60	72
10½in wire gauge	114/-	133/-	151/9	109/3	228/-
12½ do.	79/6	92/6	105/9	132/3	158/9
14½ do.	55/6	65/-	73/9	92/6	111/–

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key	9in by 9in 21/6	12 in by 9in 31/3	14in by 12in 54/–

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete	18/6	ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete	16/6	do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ¼in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.

Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights	£35 5	£50 10	£69 10
Lanterns	£55	£76 5	£110

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE		£ s. d.
20 gallons per hour 15in wide, 23in high	Enamel finish	11 10 0
25 gallons per hour 17in wide, 26in high	Do. Grey Mottle	20 10 0
	Do. Cream Mottle	22 0 0
40 Gallons per hour 22in wide, 30in high	Do. Cream Mottle	38 0 0

GAS, WATER AND STEAM TUBES

BASIC PRICES

Internal Diameter—	⅜in & ¼in	½in	¾in	⅞in	1in	1¼in	1½in	2in
Tubes per ft	9¾*d*	10*d*	1/–	1/2½	1/9	2/3	2/8	3/9
Bends each	1/7	1/9	2/–	2/6	3/8	5/5	6/2	10/7
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/–	4/4	5/2	8/6
Do., round do.	1/10	2/–	2/4	2/10	3/4	4/8	5/8	9/4
Tees do.	2/–	2/2	2/6	3/2	3/8	5/–	6/2	10/2
Crosses do.	4/4	4/8	5/6	6/6	8/2	11/–	13/2	21/–
Backnuts do.	4*d*	4*d*	6*d*	7*d*	10*d*	1/–	1/4	2/2
Sockets do.	6*d*	6*d*	8*d*	10*d*	1/–	1/4	1/9	2/6
Sockets dimin. do.	8*d*	10*d*	1/–	1/2	1/6	2/–	2/8	4/–

EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red) —25%	Heavy —15%

FITTINGS—

Black	Galvanized
Heavy —10%	Heavy —2½%

RAINWATER GOODS (Painted or Unpainted)

In consignments of 5cwt and over

From Standard List

Pipe:		2in	3in	4in	5in	6in
6ft lengths	each	12/10	14/5	18/11	24/8	31/6
3ft do.	do.	7/–	7/9	10/–	13/1	16/6
Shoe, ordinary	do.	2/7	3/10	5/7	9/5	12/11
Bend	do.	3/1	4/4	6/4	11/3	14/7
Branch, single	do.	4/6	6/7	9/3	14/7	22/6
Offset, 4½in	do.	3/9	5/3	7/9	12/11	17/–
Do. 9in	do.	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length	do.	—	6/–	8/5	10/4	13/10
Angle or nozzle	do.	—	2/6	3/1	3/9	5/4
Stop end	do.	—	9*d*	1/1	1/6	1/9

Above plus 21½%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—

Metal lathing (⅛in by 24G) (20 yards)		4/– sq yard
Plaster baseboard ⅜in (1,200 yards) ex works		2/4 do.
Lath nails, galvanized		1/11 lb
White glazed tiles (6in by 6in by ⅛in)	small quantity	25/3sq yard
Do. rounded on one edge	small quantity	30/6 do.
Do. on two adjoining edges	small quantity	33/9 do.

PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots)	110/3 per cwt
Lead water pipe in coils (do.)	112/3 do.
Plumber's solder	3/6 lb
Copper tacks	6/– do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
⅛in Medium pipe, 6ft length	14/6	17/2	19/3	21/11
Do., 4ft length	10/5	12/2	13/7	15/5
Bends	5/4	6/6	8/1	9/1
Do., with oval door	17/4	18/6	21/1	24/7
Junction, single	6/6	9/8	11/3	13/3
Do., with oval door	18/6	21/8	24/3	26/3
Swan necks, 4½in	6/6	10/3	11/9	13/9
Do., 9in	8/8	11/9	13/9	16/1
Holderbat, 2½in projection	5/9	5/11	6/3	6/4

Above plus 22%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—

(Less than three)

each gallons	Nominal capacity			
CISTERNS				
Bends over tops and corner plates. Riveted or welded	100	150	200	300
14 gauge	150/–	218/–	274/–	387/–
12 gauge	182/–	270/–	319/–	429/–
⅛in plate	270/–	314/–	369/–	501/–
HOT WATER TANKS				
Riveted and with hand hole and ring	20	25	30	40
12 gauge	137/–	140/–	152/–	175/–
⅛in plate	153/–	156/–	171/–	195/–
HOT WATER CYLINDERS—				
Riveted, with handhole and ring	20	25	33	39
12 gauge	155/–	169/–	188/–	203/–
⅛in plate	167/–	185/–	207/–	222/–

PLUMBER'S BRASSWORK, etc.

Each	¼in	⅜in	1in	1¼in
Boiler screws, single nut	1/6	1/11	3/2½	5/6
Do., double nut	2/1	2/8	5/1	7/–
Cap and lining	1/1	1/6	1/10	2/–
Plumber's unions	2/3	2/10	3/11	6/11
Ball valves, screwed iron	13/–	20/1	—	—
Do., fly nut and union	14/–	21/7	—	—
Bib valves, crutch top screwed iron	8/–	12/–	—	—
Do., but screwed boss	9/1	13/7	—	—
Stop valves, screwed iron	7/–	9/9	—	—
Do., screwed iron and union	8/9	13/–	26/3	—
Do., double union	10/–	14/3	28/6	—
Waste, plug chain and stay	—	—	8/–	9/–
	1¼in	1½in	2in	4in
Caps and screws	3/–	3/10	5/4	—
Sleeves, long	—	—	7/2	10/4
Do., short	—	4/–	4/2	8/4
Thimble	—	3/9	4/6	9/6
Full way gate valves, hot pressed	19/6	27/9	—	—
		1¼in	1½in	2in
Lead 7lb P. trap		6/11	9/–	12/8
Do., S. trap		8/5	11/1	15/7
Lead 6lb P. traps with 3in seal		7/8	9/3	—
Do., but S. traps, do.		9/6	11/7	—

Wire balloon guards, copper, 2in, 3/3; 4in 3/6
Do., galvanized iron, 2in 1/11; 4in 2/1
Hair felt 34in by 30in, 24oz, 6/– sheet
Boss white jointing compound, 2/3lb
Gasket 1/10½lb. Hemp, 9/–lb.

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard). Outside diameter	Gauge	Weight lb per ft	3cwt lots Price per lb pence	Price per ft pence
½in	0.596	19	0.27	45	12.15
¾in	0.846	19	0.39	43½	16.87
1in	1.112	18	0.62	41¾	25.89
1¼in	1.362	18	0.76	41⅛	31.26
1½in	1.612	18	0.91	41⅛	37.43
2in	2.128	17	1.40	42¾	59.85

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

Each	¾in	⅞in	1in	1¼in	1½in	2in
Straight	1/11	2/8½	4/3	5/6	7/6	10/9
Elbow	3/10	4/9½	6/4	8/1	13/-	26/6
Tees	4/7½	5/5	8/7½	12/9	18/–	26/6
Brackets (Brass)	2/–	2/4	2/7	—	—	—

GLASS

	Per foot superficial 24oz	26oz	32oz
English, flat drawn sheet glass cut to sizes in squares	10¾d	1/1½	1/5½
Figured rolled, white cut to sizes, in squares (⅛in) Group 1	1/1½d Per ft super		
Figured rolled, white cut to sizes, in squares (⅛in) Group 2	1/4¾ do.		
Ditto, but in standard tints	1/10 do.		
⅛in Rolled, cut to size, in squares	1/1½d do.		
¼in rough cast do.	1/5¾ do.		
¼in do. wired do.	1/9¼ do.		
Georgian wired do.	1/9½ do.		
Fluted (No. 4) do.	1/11¼ do.		
⅛in Reeded	2/3 do.		
⅛in Reedlyte (narrow and broad) do.	1/6 do.		
Spotlyte do.	1/6 do.		
⅛in Calorex Cast do.	1/8 do.		
Flashed Opal (15/18oz) up to 1ft super	4/2 do.		
do. do. over 1ft super	5/– do.		
Pot Opal (15/18oz) up to 1ft super	4/2 do.		
do. do. over 1 ft super	5/– do.		

POLISHED PLATE GLASS (Tariff) Cut to sizes.

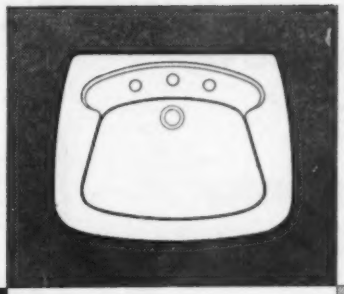
Ordinary substance ⅛in and ¼in thick.

Per Superficial ft In plates not exceeding:	General Glazing
2ft super in each	4/3
5ft do.	5/3
45ft do. (unless extra sizes)	6/3
100ft do. (do.)	6/9

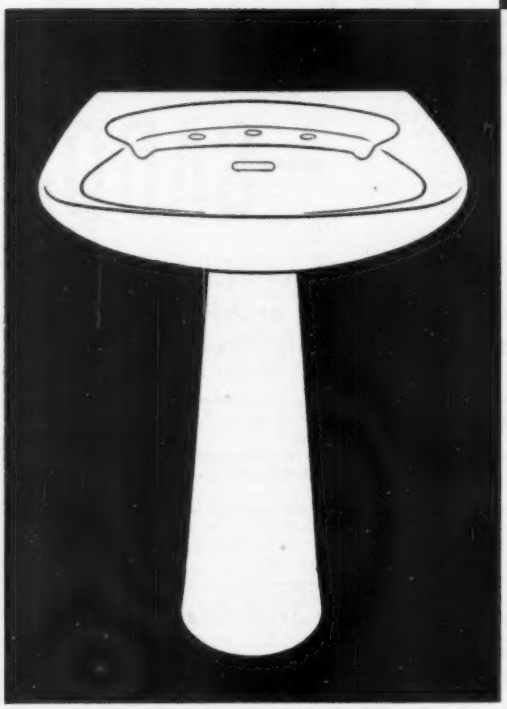
Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.

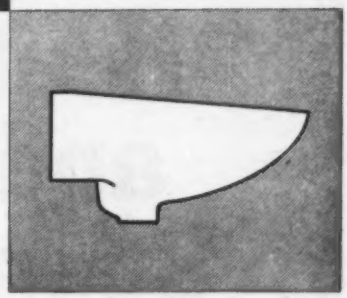
DECORATING MATERIAL

	Price	Unit
Aluminium Paint	36/–	Gallon
Distemper, ceiling	35/–	Cwt
Distemper, washable	120/–	do.
Enamel	60/–	Gallon
Gold Metallic Paint	79/–	do.
Heat Resisting Paint	50/–	do.
Japan, black	35/–	do.
Knotting	50/–	do.
Linseed Oil	15/–	do.
Boiled, do.	15/9	do.
Proprietary Paints (good class)—		
Finishing	57/6	do.
Priming	62/–	do.
Undercoat	57/–	do.
Paperhanger's Paste	36/6	Cwt
Petrifying liquid	9/–	Gallon
Putty	54/–	Cwt
Size	12/3	Firkin
Terebine	37/–	Gallon
Turpentine substitute	6/5	do.
Varnish, oak, copal inside use	45/–	do.
Do., do., outside use	45/–	do.
Do., white, eggshell, flat	50/–	do.
White lead mixed paint	66/6	do.
White lead	167/6	Cwt
Whiting	13/3	do.



design





material

Beneath the design form of the Standard Kingston lavatory basin is the firm foundation of Standard vitreous china — a non-porous material. Even without the glaze it cannot absorb moisture. So no water can enter the body material and, by swelling it, craze the glaze. This means that Standard vitreous china is always completely clean and hygienic. And it has great strength and resistance to damage. Specify Standard vitreous china and you specify fine design in the right material.

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See what's new at the

Heat and Sound Insulation EXHIBITION

ORGANISED IN CONJUNCTION WITH THE

Factory Equipment Exhibition

Earls Court
London
April 7-17

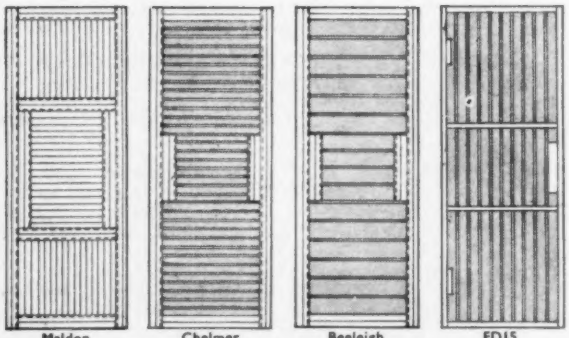
* The Heat and Sound Insulation Exhibition is the only one devoted specifically to the problems of thermal insulation and reduction of noise in industry.
* Exhibits will also include high temperature refractories, sound measuring and recording equipment, fire retardants and protection, and anti-vibration treatment.

Daily 10 a.m. — 7 p.m. (except Sunday)
Closes Friday 17th at 4 p.m. Adm. 2/6

The hallmark for fine flush doors – SADDS

5 standard designs
Specials made to architects' details
Catalogue available free on request

MALDON	Finest for external or internal use: solid core: fire check
CHELMER	Ideal for public buildings: 50% solid core
BEELEIGH	A high quality door for general domestic use and architectural specification: skeleton core
FD20 & 20X	First-class doors in internal and external grades: quality plywood facings: skeleton core
FD15	For internal use: hardboard facings for painting



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CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to April 1, 1959.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding 5,000 cubic feet	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add	4/-
Buildings over four storeys add 3*d* per 1,000 cubic feet extra for each storey up to eight	3*d*

ALTERATIONS AND ADDITIONS

Up to £100 cost		£3
Over £100 up to £1,000.—	Per £100 cost	15/-
Over £1,000 up to £5,000.—	Ditto	5/-
Over £5,000	Ditto	3/-

Public buildings add 50%

Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.	
Allow for Fire Insurance	1/6%
Allow for Water for use on the works and apparatus	5/-%
Allow for hoarding, or similar licences in City of London	say £10
Do. under Borough Councils per each month	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week	say 30/-

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders Turnover per Annum see appropriate column hereunder:

	Turnover in Thousands			
	25	50	75	100
Place	13%	9%	7%	6%
At depot	6%	5¼%	4½%	4%
On job				

SPOT ITEMS AND DEMOLITION, ETC.

	Per ft run
Hoarding erected and removed	20/-
Planked gangway with handrail, etc. do.	10/-
Proper gantry do.	78/-
Sleeper roadways	16/6
Needling, strutting and shoring including all labours and use and waste in erection and removal	Per ft cube 20/-

ALTERATION-DEMOLITION—	1 Brick	1½ Brick	2 Brick	Per yard cube
	(Per ft super)			
Cutting out cement concrete or brickwork in small quantities	1/3	2/6	3/7	64/-
Do. if either in very small quantities or reinforced	2/2	4/1	6/-	95/-
Debris into baskets and removed from inside to outside of bldg.	3½*d*	7*d*	9*d*	14/-

SCAFFOLDING (Avg. 45ft high)

Per yard superficial	Period 1 month	3 months	5 months
Putlog type—4ft 6in lift	7/2	9/7	12/5
Do. —6ft 0in do.	5/1	7/4	9/5
Independent type—4ft 6in lift	9/5	13/4	17/2
Do. —6ft 0in do.	6/7	9/6	11/10

EXCAVATION Per Yard Cube *By hand*	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
Reducing levels	7/-	8/4	9/9	64/3
Surface trench not exceeding 5ft deep	14/1	16/10	22/5	79/10
Do. from 5ft to 10ft	25/9	28/11	34/7	87/2
Do. from 10ft to 15ft	29/3	34/10	40/11	95/4
Fill in and ram	5/9	6/4	6/4	6/2
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT	To 5ft deep	5 to 10ft deep	10 to 15ft deep
To trenches, in normal ground	7*d*	8½*d*	10*d*
Per Ft Super			

CONCRETE 1½in Ballast Aggregate	Per yard cube
1 : 3 : 6 Cement concrete in foundations	80/-
Do. around grillages	83/-

REINFORCED CONCRETE

1 : 2 : 4—¾in concrete, worked around reinforcement, between formwork in the following (at various levels):—Per cubic yard	
Foundations and surface beds	83/9
Walls, 12in thick or more	95/-

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	
Up to 36	4/10	5/-	5/2	Per cubic ft
36 to 72	4/9	4/11	5/1	do.
72 to 144	4/8	4/10	5/-	do.
over 144	4/6	4/8	4/10	do.
Walls 6in thick			19/7	Per super yd
Do. 9in thick			28/10	do.
Suspended floors average 6in thick			19/6	do.

REINFORCING RODS (round) bent and placed. (Ex Mills)— Per cwt	¾in	⅝in	½in	⅜ to 1in
In floors and beams	92/-	80/-	75/9	67/6
In walls	98/-	85/-	79/9	70/6
In columns	105/6	90/3	81/-	73/9

FORMWORK and Supports (4 times use)— Floor soffits	Beams	Walls	Columns
20/3 per yard	3/-	2/8	2/8 per super ft

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)—	In 1 : 3 cement mortar
Flettons or other similar *at* 118/- per 1,000	42/-
Mild Stocks or do., *at* 245/- per 1,000	57/9
Second Stocks or do., *at* 323/- per 1,000	66/-
Southwater engineering or similar bricks, *at* 400/6 per 1,000	78/-
Blue Staffordshire wire cut *at* 542/6 per 1,000	94/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2*d*
Add if brickwork commences above ground level	4/9
Do. if in backing to masonry including cutting and waste for bonding	3/10
Do. If circular-on-plan	9/-
Do. If in underpinning	9/-

BRICKWORK IN THICKNESS NOT REDUCED— Per yard superficial	Brick, on edge walls	Half-Brick walls	1 Brick finished fair both sides	11in Hollow with 2in cavity and G.I. TIES
In Flettons or similar	18/3	23/4	43/1	49/3
In second stocks or do.	31/-	41/-	73/-	72/-
Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ½ brick	Fletton 57/-	Stock 72/-		Per yd super
Do. all as last but an average total thickness of 1½ bricks	78/-	102/6		do.

WALLS BUILT IN SUPERIOR BRICKS— In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—	Half-Brick	One Brick	
In first quality Stocks at 349/-	44/-	73/-	Per yd super
In red facings at 330/-	38/6	67/9	do.
In blue pressed facings at 604/-	60/-	104/9	do.

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old		5/9 per ft
Damp proof course, double slate, horizontal		4/9 super
Do., as last, but vertical		5/9 do.
Do., bitumen, Hessian base, horizontal		1/- do.
Frames, bed and point in cement mortar, one side		4½*d* per ft run
Window board of 6in by 6in by ¾in rounded on edge quarry tiles, bedded, pointed, cut and fitted		4/3 do.
Terra-cotta air bricks built in and pointed, including flue	9in by 6in 6/6	9in by 9in 11/6 each
Chimney pots, plain red, set and flaunched in cement mortar	1ft high 17/-	2ft high 24/- each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	Up to 5ft super 15/2	5ft to 10ft super 18/9 each
	10ft to 20ft super 28/5	20ft to 40ft super 47/- each
Leaving holes through walls for pipes and afterwards making good	Small pipes 3*d* per in in depth	Large pipes 6*d* per in in depth
Cutting do., and afterwards do.	11*d* do.	2/- do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout		1/3 per in in depth, each
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in		1/7 each

MEASURED RATES—*Continued*

BRICKWORK—*Continued*

FACING—

Extra only over common brickwork (118/– per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Fletton (150/–)	4/2	per yd super
White (220/–)	9/9	do.
First Stocks (349/–)	21/–	do.
Reds (370/–)	20/9	do.
Blue pressed (604/–)	38/3	do.

If built in English bond, *Add* 12½% to above.
If do., half-brick stretcher bond, *Less* 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/–	12/–
In red facings	7/5	11/11

Plumbing angles	2*d* per ft run
Fair cutting	1/– do.
Fair rake cutting	1/7 do.
Fair circular cutting	1/7 do.
Fair squint or birdsmouth	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4½in soffits and pointing	ft run 3/9
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	ft super 19/–

PARTITIONS

(75 yards)	Per yd super—2in	2½in	3in
Concrete slab partitions in cement mortar	11/4	13/5	14/5
Hollow clay do.	13/5	15/6	18/-
Cutting and bonding at angles, intersections and ends		5*d* ft run	

PAVING

	1in	1½in	1¼in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1 by 5in skirting, square top and cove bottom			2/10 ft run
¾in by 6in red quarry tile paving			32/– yd super
¾in by 6in do. skirting			1/11 ft run
Jointless flooring, ¼in thick			20/– yd super

ASPHALT (normal conditions and fair quantity)

	Unit	B.S. 1450/48	B.S. 1375/47 Brown Mastic B.S.988	B.S. 1375/47 Red Natural Rock B.S.S.1162/44
¾in pitch mastic floor in one coat on felt underlay on prepared concrete base	Per yd super	13/–	14/–	15/9
¾in in two thicknesses on felt underlay on prepared concrete base	yd super	15/–		22/–
Do. in narrow widths	ft super	2/6		3/3
¾in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/6		2/9
External angles	each	6*d*		6*d*
Internal do.	each	10*d*		10*d*
Tanking or Damp Course		B.S.1097/43		B.S.1418/47
Vertical in two thicknesses	yd super	22/6		27/–
¾in horizontal do.	yd super	13/6		20/–
Vertical in three thicknesses	yd super	30/–		37/-
1½in horizontal do.	yd super	19/6		29/–
Labour rounded external angle	per ft run	6*d*		6*d*
Do. internal angle fillet	per ft run	10*d*		11*d*
Do. double do.	per ft run	1/8		1/8
Collars to small pipes	each	3/6		4/–
Do. to large pipes	each	6/6		8/–

DRAINAGE

Per lineal yd		
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus. In ordinary ground—moderately firm. (By hand)	1ft in depth	5/10
	2 do.	9/11
	3 do.	22/9
	4 do.	29/7
	5 do.	36/6
	6 do.	54/11
	7 do.	67/6
	8 do.	80/–
	9 do.	92/6
	10 do.	104/11
	11 do.	128/1
	12 do.	144/11

Portland cement concrete bed under pipes and benching both sides—6in thick	(1 : 6) drain 4in up on 18in wide	Per yd run 6in 20in wide	9in 23in wide
	8/6	10/–	12/3

SALT GLAZED SANITARY DRAIN PIPES
and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	Per ft run 4in	6in	9in
"Best"	2ton or more	3/1	4/7	7/7
	50 pieces and over	3/5	5/3	8/6
	under 50 pieces	3/6	5/4	8/10
"Best Tested"	2ton or more	3/9	5/10	9/2½
	50 pieces and over	4/2	6/3	10/2
	under 50 pieces	4/3	6/5	10/10
"British Standard"	2ton or more	3/3	4/10	8/–
	50 pieces and over	3/8	5/6	9/–
	under 50 pieces	3/9	5/7	9/4
"British Standard Tested"	2ton or more	3/10	5/9	9/7
	50 pieces and over	4/5	6/8	11/–
	under 50 pieces	4/6	6/9	11/5
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6
Extra for junction "Best"—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/-½

IRON DRAIN PIPES—

	Per ft run 4in	6in
Heavy cast iron socketed and laying and jointing in molten lead—		
In main runs	14/5	20/2
In branches	16/6	23/4
	each	
Extra over last for bends and extra joint	30/2	66/1
Do. on do. for junctions and extra joint	45/4	86/–
Cast-iron gulley with 10½ inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	183/–	—
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	85/9	143/6

MANHOLE SUNDRIES—		4in	6in
Salt glazed straight half-round main channels	each	6/–	8/7
Do. curved	do.	14/–	20/–
Do. three-quarter section splayed channel bends (Barrons or similar)	do.	18/–	26/6
Heavy manhole steps galvanized	do.	9/9	—
Fix only manhole covers	do.	11/6	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	41/–	—

ROOFER

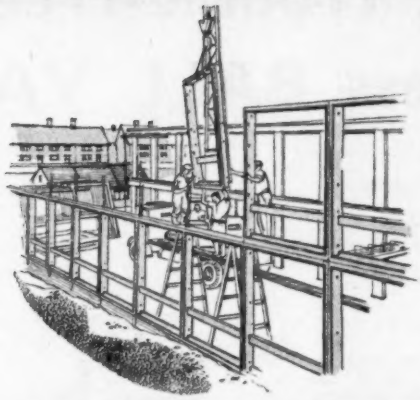
CORRUGATED ASBESTOS SHEETS

P.C. 8/3¾ per super yd including side and end laps and fixing to wood	162/6 per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1¼in galvanized nails, to battens (measured separately)	263/– per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit	12/6 yd
Do. but in one layer only	9/– super

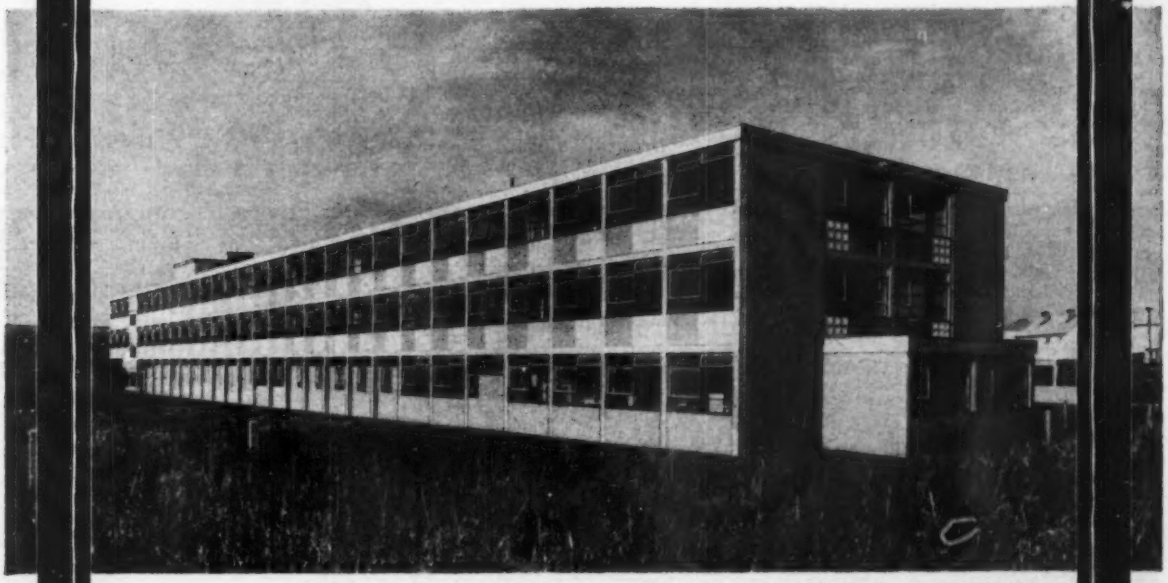
WELSH SLATING	Per square 16″+10″	18″+10″	20″+10″
3in lap, 2 zinc nails to each slate	341/–	356/–	414/–

Additional labours	Per ft lineal 1/9	1/10	2/2
At tops, verges and abutments—straight			
Do. —raking	2/7	2/9	3/1
At hips and valleys (each side)	2/7	2/9	3/1
At eaves, double course	3/6	3/8	4/2
Do. to falls	5/3	5/4	6/3



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KINGLEY

B.R.S. Trouble-Free and Noiseless BALL VALVES

TROUBLE-FREE because :-

No working parts of the valve are in water and no sticking can occur as with the old piston type of fitting.

Cavitation of the seatings is greatly reduced if not entirely eliminated, giving the valve a trouble-free long life many times that of an ordinary ball valve.

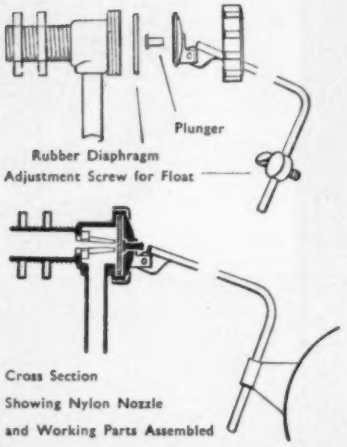
NOISELESS because :-

Water passes into the cistern through a nylon nozzle shaped to minimise disturbance on contact with a rubber diaphragm and then passes into the cistern through a plastic tube thereby avoiding metallic vibration.

A trouble-free ball valve is the urgent need of Water Boards, Householders and the Building Industry. Now, the KINGLEY B.R.S. BALL VALVE has been produced to meet this need and has the added advantage of being NOISELESS.

The main features of the KINGLEY B.R.S. BALL VALVE are as illustrated, a nylon nozzle shaped to overcome cavitation and a rubber diaphragm which stops the flow of water when pressed against the nozzle by a plunger. The diaphragm keeps the moving parts of the valve dry and free from corrosion and incrustation. The movement of the plunger is controlled by the usual float on a hinged arm, which at its free end is bent down at a right-angle. By means of a thumbscrew, the float can be fixed on this part of the arm at any height depending on the water level required in the cistern.

For full details and illustrated leaflet write to:—



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"We have found STONHARD RESURFACER excellent for resurfacing badly pitted floors which could not be further overloaded and where the work had to be carried out without seriously disturbing production.

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MEASURED RATES—*continued*

FLOORS AND FLATS

Hollow tile *in situ* or pre-cast units hoisted, bedded and fixed—

Superimposed load in lb per ft super	Span 12ft	Span 16ft
50 ..	44/9	52/9
Per yd super 100 ..	47/-	59/-
150 ..	53/9	67/3

20lb has been allowed to cover dead load in surface, finish.

Fair edge to slabs	9*d* per ft run
Splay cutting and waste	1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—

	Plates	Joists per ft cube	Rafters per ft cube	Trusses per ft cube
Labour, materials, waste nails, hoisting and fixing ..	19/2	20/8	22/4	25/6

FLOORING— Per square—	¾in	1in	1¼in
Rough boarding	144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings	146/6	167/6	206/-
Do. grooved and tongued	167/6	189/6	244/-

SKIRTING— Per ft superficial—	½in	¾in	1in
Wrot softwood moulded skirting with grounds and backings plugged ..	3/8	4/3	4/10

Mitres to do. .. 3*d* per sectional in.
Fitted ends .. 2*d* do.

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/2	5/10
Add if fitted with beads	6*d*	1/6
Add if hanging on butts	2/6 each	

WINDOWS, hung on lines—
Softwood cased frames, 1in inner and outer linings, 1¼in pulley stiles, 2in sashes, oak sill ..

Per ft super	Overall size of frames— 6ft	21ft	32ft	44ft
Windows as described ..	19/6	11/-	8/2	6/5
Add if sashes in squares, about 2ft super in each	—	1/6	2/-	1/11
Extra for hanging sashes with lines, weights and axle pulleys	each— 30/3	50/3	62/3	84/3

FINISHINGS TO OPENINGS—

Per ft super—	¾in	1in	1¼in	1½in
Softwood linings, tongued at angles and tongued to frame including grounds and backings	3/7	4/1	5/-	5/8
Add if crosstongued	6*d*	6*d*	6*d*	6*d*
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/6	4/-	4/11	5/5
Add for ends to last notched, returned and rounded	1/1	1/2	1/3	1/4

Per ft run— Sectional area in in—	1	2	3	4	5	6
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	3½*d*	6*d*	8½*d*	11*d*	1/1½	1/3½
Add if in short lengths	2*d*	2*d*	2½*d*	2½*d*	3*d*	3*d*
„ if plugged to brickwork ..	4*d*	4*d*	4*d*	4*d*	4*d*	4*d*
„ if framed as in legs and bearers	3*d*	3*d*	4*d*	4*d*	6*d*	6*d*
„ if rebated or grooved or beaded	½*d*	½*d*	½*d*	½*d*	½*d*	½*d*
„ if chamfered or rounded edges				1½*d*		
„ if moulded in architraves, capping, etc.				3*d*		

DOOR FRAMES— Per ft run	6in	8in	10in	12in	13½in
Per sectional in—					
Softwood, wrot, reb. & rdd. ..	2/2	2/7	3/2	3/6	3/10

DOORS—Per ft super Number of panels—	1	2	3	4	5	6
2in Softwood square framed and flat panels, both sides, on butts ..	6/-	6/10	7/5	8/-	8/4	8/10
1½in do.	5/4	6/2	6/7	7/2	7/7	8/1
Add for each side moulded	3*d*	4*d*	5*d*	6*d*	7*d*	8*d*
Add B.S. flush panelled	1/6	1/6	1/6½	1/7	1/8	1/8

Per ft super—	¾in	1in	1¼in	1½in
In shelves, table tops, wrot and fixed	2/5	2/9	3/4	3/9
Do. in divisions and ends framed ..	2/9	3/1	3/8	4/3
Add if crosstongued	6*d*	6*d*	6*d*	6*d*
Add if buttoned	6*d*	6*d*	6*d*	6*d*

SUNDRIES—Per ft run—	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	6*d*	4*d*	2*d*
Rounded heel or hollow		4*d*	
Tongued and grooved angle ..		6*d*	
Glue blocking		6*d*	
Mitres	3*d*	per sectional in	
Fitted ends	2*d*	do.	

STAIRCASE—	Per ft super	
1¼in Softwood treads with moulded nosings 1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/1	
Do. but in winders	7/6	
1¼in crosstongued landing on framed carriages	6/3	
2in moulded string	5/-	
2in do. ramped	12/-	
Ends framed to newel	9/10	each
Tongued heading joints	5/6	do.
Ends of treads and risers housed to string ..	3/6	do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/-	do.

Balusters about 2ft 9in long, square and framed each end .. .. each	1in 3/9	1¼in 4/6	1½in 5/3

3½in by 3½in square newel, framed .. 4/- per ft run

African mahogany moulded 3in by 2in hand-rail. (Joints below)	9/3
Do. ramped 18in girth (do.)	54/- each
Do. wreathed do. (do.)	160/- do.
Joint or framed ends	12/- do.

FIXING ONLY IRONMONGERY	To deal	To hardboard
Barrel bolts	1/10	2/9 each
Flush bolts	5/6	4/10 do.
Sash fasteners	2/6	3/- do.
Rim locks and furniture	4/6	6/- do.
Mortice locks and do.	7/6	17/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	49/-	63/- do.
Overhead springs	14/7	20/- do.
Springhinges	14/-	19/- do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders ..	91/6 do.
Do. but in stanchions	93/6 do.
Trusses	130/6 do.
Additional cost per cwt over basic sections for following R.S.J.s 9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6½in, 20in by 7½in	8*d* per cwt
22in by 7in, 1/1 cwt 4in by 3in	1/10 do.
5in by 3in, 5in by 2½in	2/2½ do.
6in by 3in, 24in by 7½in	2/6 do.
3in by 3in, 2/9 cwt 4¾in by 1¼in ..	4/- do.
3in by 1½in	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	174/- do.
Forged straps	132/- do.
Wrot iron balustrade	175/- do.

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	Per ft lineal 2in	3in	4in
Extra for shoes .. .. .. each	5/7	7/2	10/3
Do. junctions .. .. do.	8/5	10/9	15/7
Do. bends .. .. .. do.	6/7	8/6	10/10

RAINWATER GUTTERS Per ft. run—	4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	3/11	4/8	5/9
Ogee do. All as last	4/4	5/-	6/3
Extra for stop ends	3/2	3/10	4/-
Do. angles or outlets	5/6	7/-	8/4

MEASURED RATES—*continued*

PLUMBER

EXTERNAL—	Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt	149/3	191/6	203/–

LEAD PIPES: running joints, etc.

Per ft run		½in	¾in	1in	1¼in	1½in	2in
Main	Fixed	4/4	6/1	8/6	10/8	13/6½	18/5
Service	with	3/10½	5/5	7/1	8/8	10/11	14/11
Waste	hooks	2/9	3/10	5/–	7/4	7/11	10/1
Bends	each	—	—	—	1/9	3/–	8/–
Solder joints	do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints	do.	13/9	16/8	20/4	26/–	—	—
Stop valve and *do.*	do.	27/6	37/6	51/9	82/–	—	—
Bib valve and *do.*	do.	19/–	26/3	—	—	—	—
Ball valve and *do.*	do.	26/–	35/6	51/–	78/–	—	—
Sleeve and *do.*	do.	—	—	—	—	21/–	29/–

COPPER TUBES

	½in	¾in	1in	1¼in	1½in	2in
Tubes per ft run ..	2/10	3/5½	4/7	5/5½	6/4	9/2
Couplings: straight each	3/7	4/4½	6/7	8/6	11/–	15/–
Do. Elbows each ..	5/8	6/8½	8/10	11/3	16/9	32/4
Do. Tees do.	8/3	9/7	13/10	19/–	25/6	32/–
Do. Cisterns do. ..	4/8	6/3	8/4	10/6	14/4	18/11
Stop cocks do. ..	24/4	35/4	63/–	104/6	159/–	240/–

BLACK TUBING (Heavy) fixed with pipe brackets	½in	¾in	1in	1¼in	1½in	2in
Tubes, per ft run ..	2/4	2/8	3/3	4/1	4/9	6/10
Bends and fix, each ..	5/1	5/10	7/10	10/5	12/1	18/3
Tees and do.	5/7	6/7	7/11	10/–	12/1	17/9
Fire bends	2/–	2/6	2/9	3/–	4/–	7/3

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance	2in	4in
pieces and molten lead joints ..	5/9	8/4 ft run
Extra only for bends and joint ..	14/9	23/8 each
Do. junctions and joints	16/4	29/9 do.
Do. cleaning doors	16/–	17/6 do.
Domical wire guards	2/6	2/9 do.

PLASTERER—			yd super
Lime and hair	¾in	Render and set	6/9
Do.	1¼in	Do. float and set	9/8
Sirapite	½in	Skimming coat	4/4
Do.	¾in	Render and set	8/–
Do.	¾in	Render, float and set	10/7
Portland	½in	Backing coat	4/10
Do.	¾in	Plain face	8/–
Do.	¾in	Floor screed	4/10
Keenes	½in	Skimming coat	5/2
Dubbing	½in	Thick or less	2/4
Metal Lathing	¾in	mesh by 24 Gauge	6/10

6in by 6in by ¼in Earthenware Plain Glazed Tiles, in fair quantity, white, and setting (on prepared screed) .. 45/–

Rounded edge. Extra over last .. .. .. 6*d* per ft run
Angles in do. .. .. 6*d* each
Cutting and fitting. Around pipes or clips .. 1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.
Do. 6in to 12in do. Add 40 per cent to plain surface.
Sundry labours per ft lineal:—
Quirk 3*d*. Arris 4*d*. Fair edge 3*d*. Rounded edge 5*d*.
Flush bead 1/9.
Mouldings—6*d* per in girth.
Jointing new plastering to old 3½*d*.

POLISHING	Ft super	6" Girth Ft run
NEW WORK—		
Staining, bodying-in and French Polish	3/-	2/-
Staining and wax polishing on hardwood	1/6	1/-
OLD WORK—		
Cleaning down old work and repolish	1/4	—
Stripping, preparing and repolishing ..	3/4	2/3

INTERNAL PAINTING

With white lead base in common colours, with brushes.

	Knot stop and prime	Prime and paint once	Prime and paint twice	Add for each extra coat
ON WOOD—				
General surfaces	2/9½	5/7	8/–	2/4 yd super
Running lengths not exceeding 3in wide	4½*d*	8½*d*	1/–	3½*d* yd run
Do. 3in to 6in wide	5½*d*	11*d*	1/4	4½*d* do.
Do. 6in to 9in wide	9*d*	1/6	2/1	7½*d* do.
Do. 9in to 12in wide	11*d*	1/11	2/7	9½*d* do.
Sash square each side	5/5	10/3	14/11	4/4½ per do.
Do. in large squares	8/3	15/–	21/–	6/7 do.
Opening edges ..	7*d*	1/2	1/9	7*d* each
Casement frames each side	6*d*	1/–	1/4	5*d* yd run
Mullions or transoms do.	8*d*	1/5	2/–	7*d* do.

ON PLASTER—	One coat	Two coats	Three coats	
Paint on surfaces	3/1	5/10	8/3	per yd super
Do. on mouldings ..	3/5	6/5	9/2	do.
Do. on enrichment ..	6/2	11/8	16/6	do.
ON STEEL				
Paint on structural steel ..	2/5	4/7	6/10	do.
Do. on roof trusses ..	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10½	5/–	6/9	do.
Do. divided into extra large squares	2/5½	4/2	5/10	do.
Do. on opening edges ..	10*d*	1/6	2/–	each
Do. on rain water pipe ..	10*d*	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3*d*	6*d*	10*d*	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ¼in), glazing quality, in the following sizes, glazed complete—Per ft super

in plates not exceeding	2ft super in each		6/10
Do.	5ft do.		7/11
Do. (unless extra sizes)	45ft do.		9/–
Do. (unless extra sizes)	100ft do.		9/7

Add extra price for glazing with screw beads or clips 5*d* per ft super.
Do. if glazing bedded in washleather or velvet 9*d* per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work:
Ordinary quality clear, glazed to wood with putty:—

24oz as described			1/6½
26oz do.			1/9½
32oz do.			2/2
⅛ figured rolled, glazed to wood with putty	Group 1	Per ft super	1/9½
	Group 2	do.	2/1½
Do. in standard tints		do.	2/7
No. 4 Fluted, glazed do. ..		do.	2/8½
⅛in Reeded (narrow, broad, etc.)		do.	3/0½
Reedlyte do.		do.	2/2½
Spotlyte do.		do.	2/2½
¼in Rough cast do			2/2½
¼in do. wired do.		do.	2/6
¼in Georgian Rough Cast do. ..		do.	2/6½

Add for glazing all as before but to steel to similar work as above, 1½*d* per superficial ft.

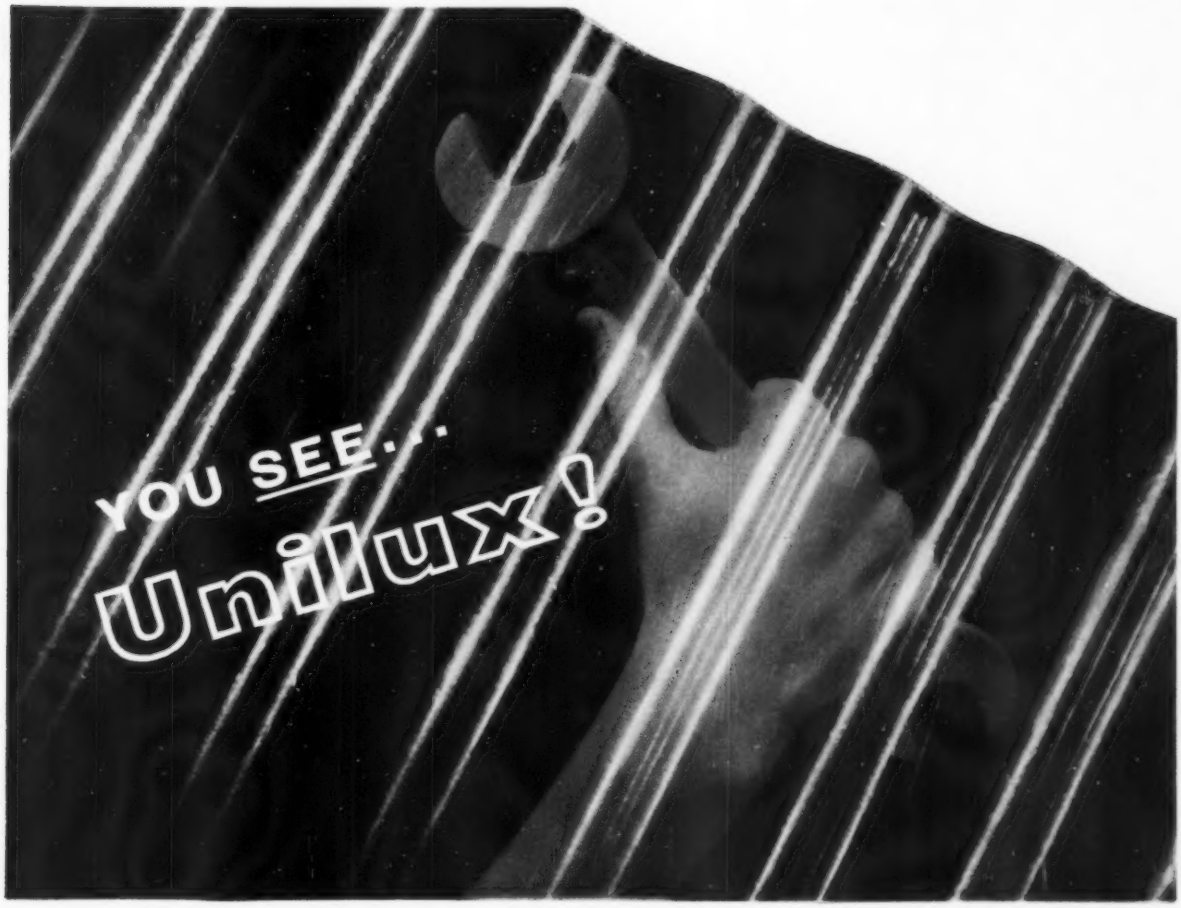
PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—
ON PREPARED SURFACE

per yd super—	1 coat (finish)	2 coats (undercoat and finish)	*Add* if required Sealing coat	Stippling
Ordinary distemper on flat surface of plaster ..	10*d*	1/6	6*d*	3*d*
Washable do. on do. of plaster	1/–	1/10	6*d*	3*d*
Add if in margins, narrow widths or panels ..	30%	30%	20%	50%
Add if on mouldings ..	50%	50%	45%	—
Add if on enrichments ..	160%	160%	115%	—

PAPERHANGING

Hanging only—	Per Piece—Lining	Pattern
On walls	7/6	9/–
On stairs	10/3	12/–
On ceilings	9/–	10/6

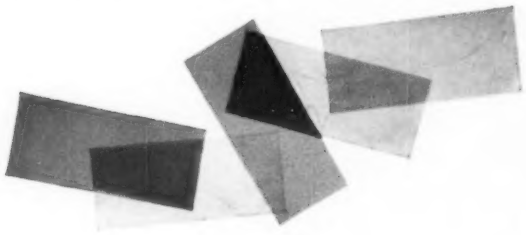


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G

THE BROOKWOOD MEMORIAL



Architect: R. Hobday, A.R.I.B.A.
Senior Architect to the Imperial War Graves Commission

Broughton Moor Light Sea Green Slate

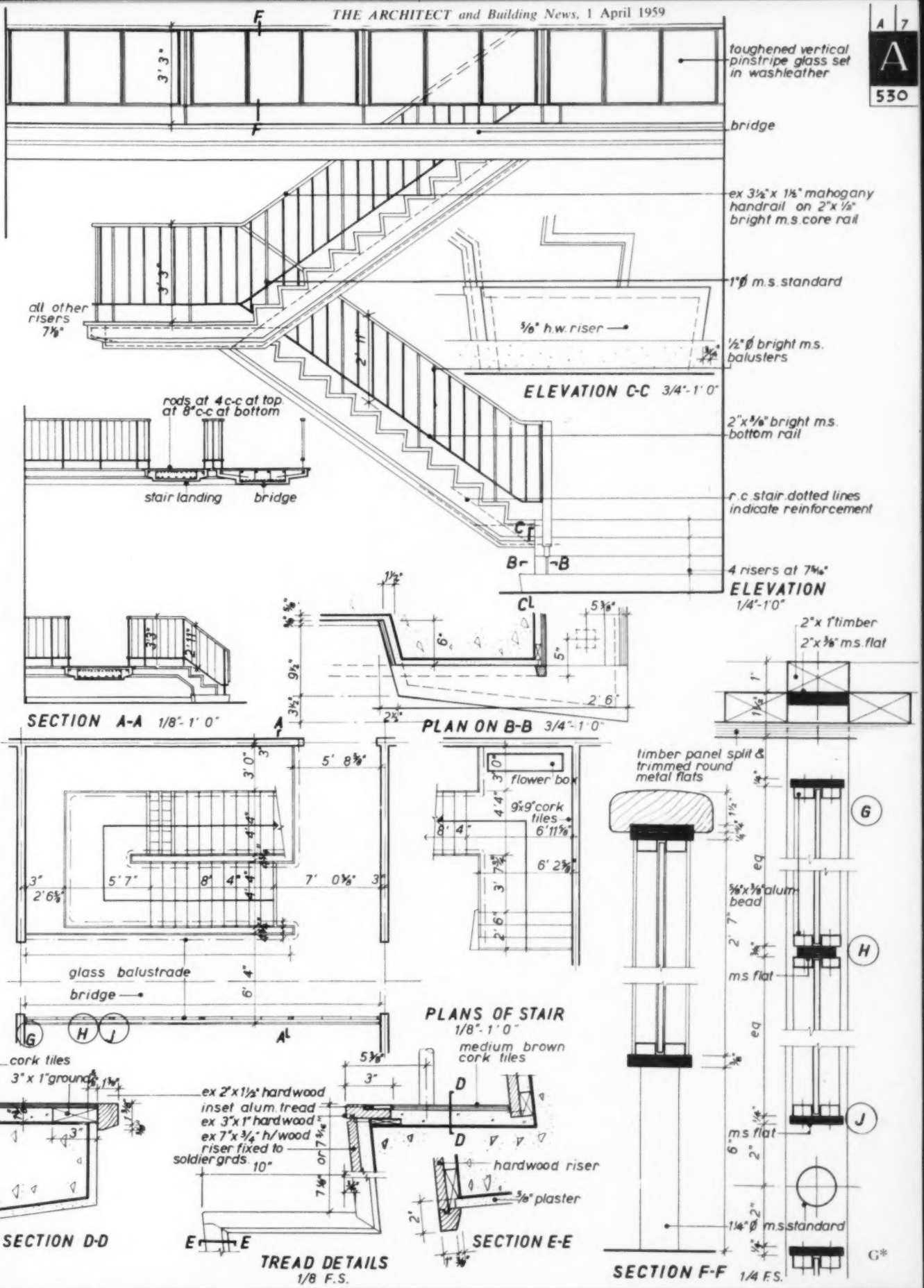
was chosen for its lasting beauty to preserve the names of 3,500 men and women of the Commonwealth who died on active service during the second world war and who have no known graves. Their names are carved in the twenty-eight panels of Broughton Moor Light Sea Green Slate set in the circular columns of the Brookwood Memorial, recently unveiled by the Queen. Chiselled deep into the glassy surface of the highly polished slate, the names are clear and legible. This beautiful green slate from the Lake District, rugged and hard, will defy the tooth of time to preserve the names for centuries to come.



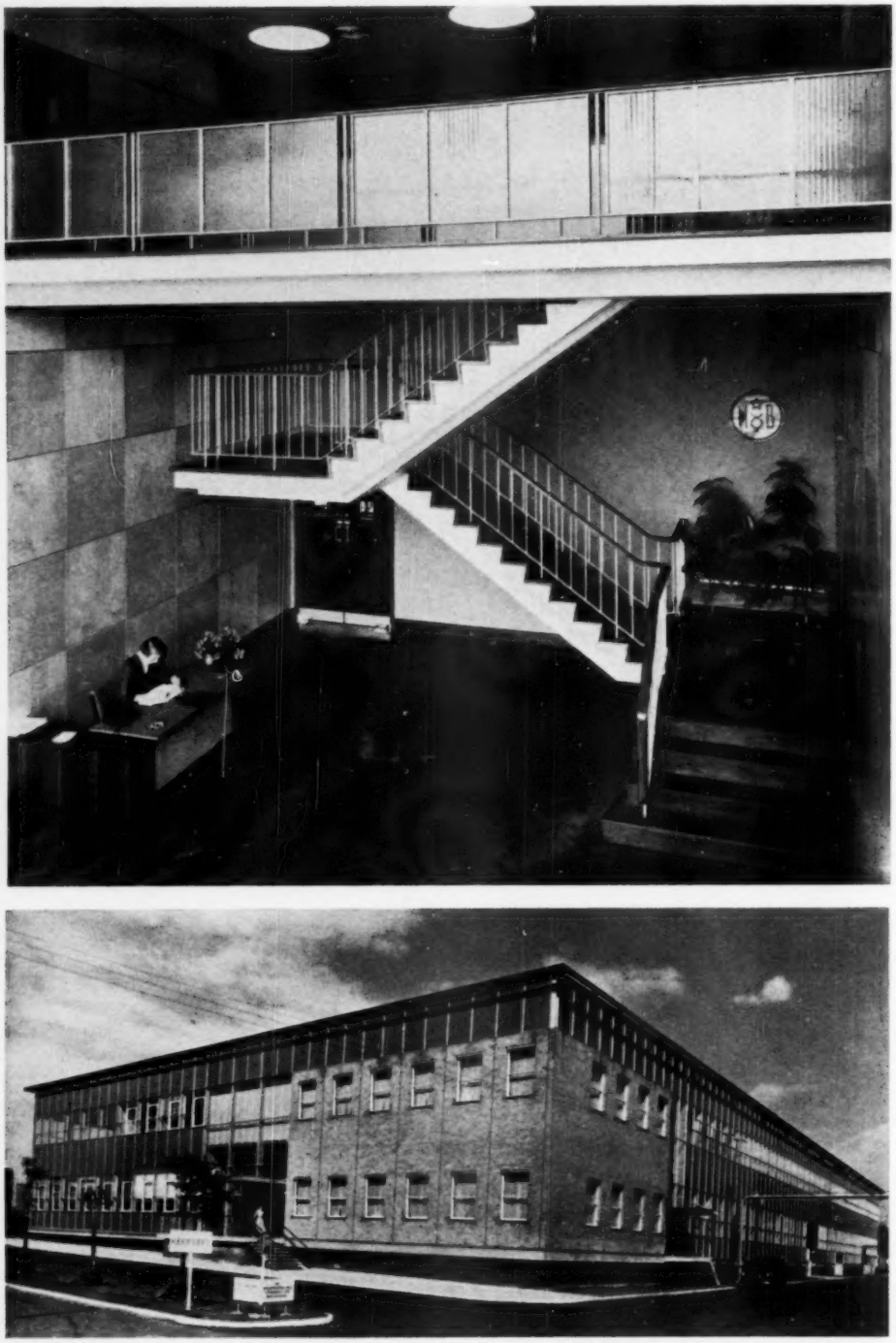
A section of Broughton Moor Slate, showing the highly polished finish. Finely rubbed, naturally riven, sanded and frame sawn finishes are also supplied, and technical pamphlets showing typical methods of fixing are available, as follows: 1. Flooring; 2. Facings; 3. Coping; 4. Cills; 5. Riven Face Slabs.

The BROUGHTON MOOR Green Slate Quarries Ltd

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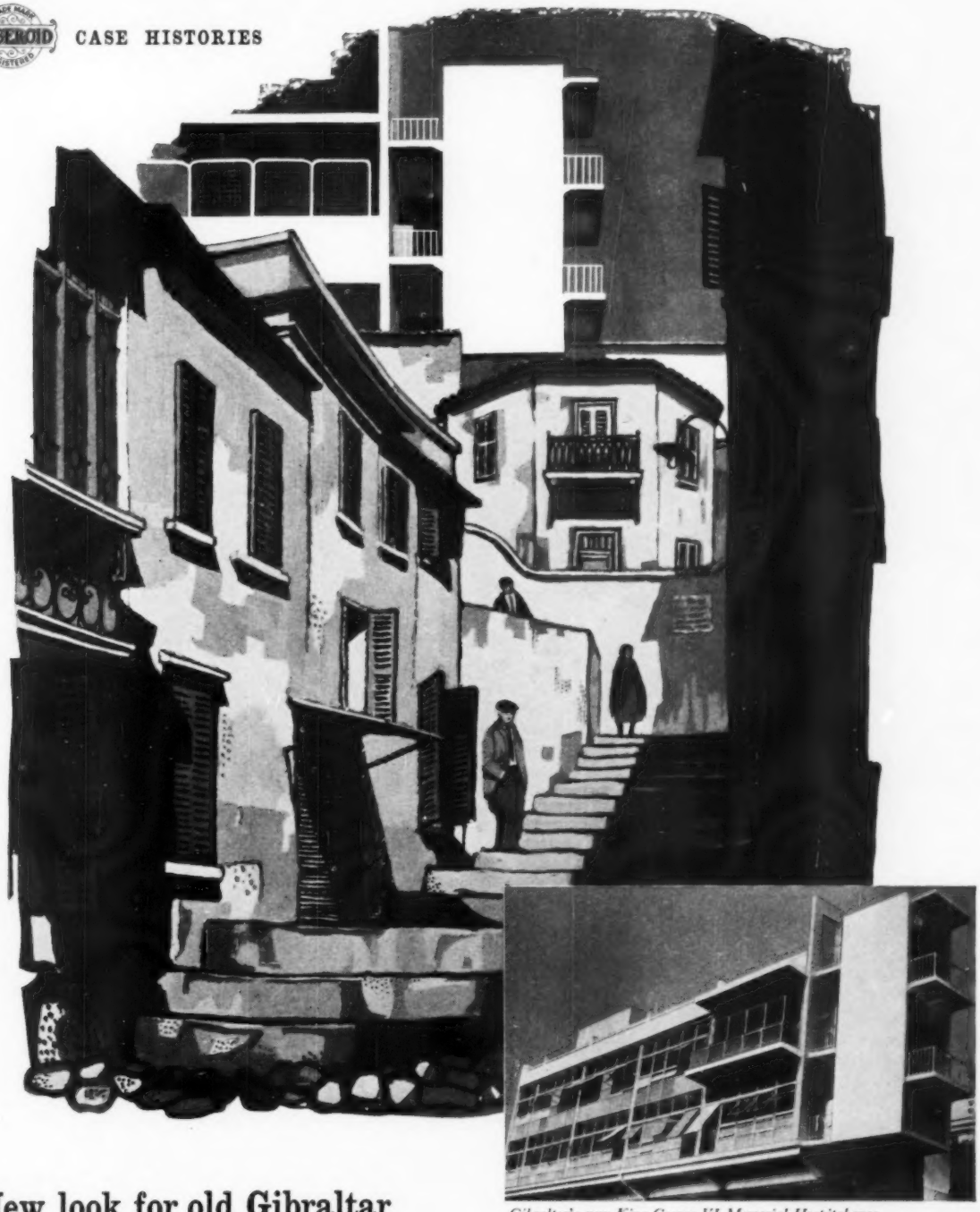


ENTRANCE STAIR. CHEMICAL FACTORY. DAGENHAM. ESSEX. EDWARD D. MILLS & PARTNERS



The staircase in the main entrance hall of this Pharmaceutical Building is cantilevered from one of the side reinforced concrete walls at the first floor level, and the landing is, in turn, cantilevered from the two flights. The gallery at first floor level connects the offices planned on either side of the entrance hall. The architects were Edward D. Mills and Partners

RUBEROID CASE HISTORIES



Gibraltar's new King George VI Memorial Hospital was designed by Architects Covell & Matthews of London who specified Ruberoid Built-up Roofing surfaced with Ruberdal Tiles.

New look for old Gibraltar

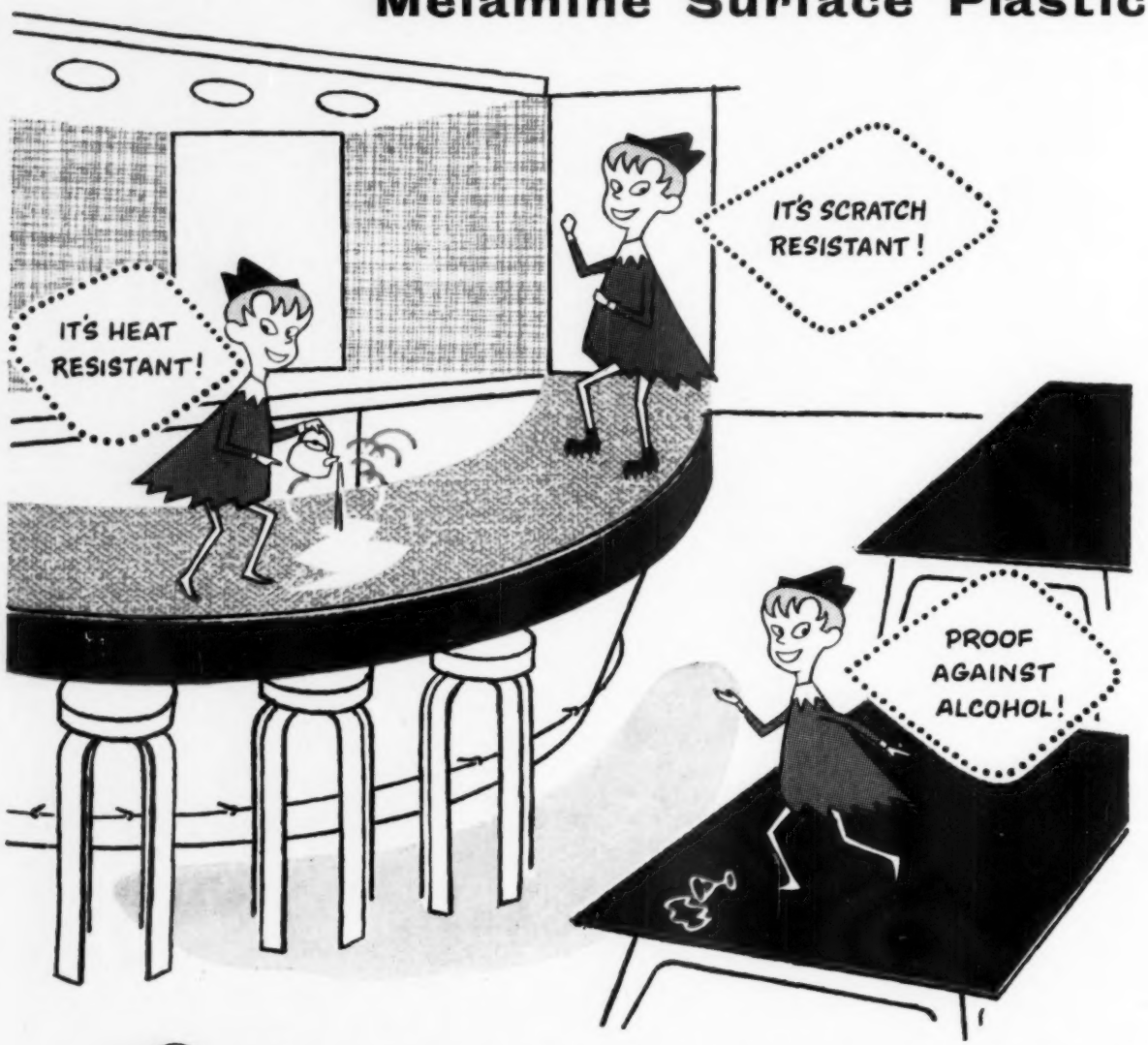
In vivid contrast to its traditionally Spanish surroundings
the splendid new King George VI Memorial Hospital,
with a Ruberdal Roof, now towers majestically
above Gibraltar's ancient streets.

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Contractor: Jackson & Gocher, Godalming.



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CONTRACT • NEWS •

OPEN

*Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.*

BUILDING

BARNSLEY B.C. (a) Erection and completion of a crematorium and ancillary buildings at Ardsley. (b) Borough Engineer, Town Hall, Barnsley (c) 2gn. (e) May 13.

* * *

BASINGSTOKE B.C. (a) 58 dwellings and 27 garages to the south of St. Peter's Road on South Ham estate, Basingstoke. (b) Borough Architect, Municipal Buildings, Basingstoke. (c) 2gn. (e) April 14.

* * *

BRISTOL C.C. (a) Construction of recreation and parade building at Redland Police Station, Bristol. (b) City Architect, Council House, Bristol, 1. (c) 2gn (fixed price tender). (e) April 6.

* * *

CEYLON—DEPARTMENT OF INDUSTRIES. (a) Erection of a brick and tile factory near Kandy. (b) High Commissioner for Ceylon, 13 Hyde Park Gardens, London, W.2, or Acting Director of Industries Planning Division, Colombo 2, Ceylon. (e) April 15.

* * *

CHADDERTON U.C. (a) Fixed price tenders for the proposed extensions to South Chadderton library. (b) Engineer and Surveyor, Town Hall, Chadderton. (c) 2gn. (e) April 17.

* * *

CHESTER R.C. (a) 42 houses and four flats at Melrose Avenue, Gt. Boughton. (b) Council's Architect, T. C. R. Eaton, Esq., 16 White Friars, Chester. (c) 3gn (payable to Council). (e) April 28.

* * *

COLCHESTER B.C. (a) Fixed price tenders for the erection of an administration block on the site of the new bus station, Queen Street, to be completed by December 31, 1959. (b) Borough Engineer, 1 West Stockwell Street, Colchester. (c) 2gn. (e) April 14.

* * *

EAST ELLOE R.C. (a) Six bungalows at Red Cow site, Contract No. 1, Sutton St. Edmund. (b) Council's Architect, Mattimore House, Holbeach, Spalding, Lincs. (c) 2gn.

* * *

EIRE—DN BORD IASCAIGH MHARA (SEA FISHERIES BORD). (a) Erection of a five-ton block ice making plant at Castletownbere, Co. Cork, for Dn Bord Iascaigh Mhara, 67 Lower Mount Street, Dublin. (c) 5gn. (e) April 4.

* * *

EIRE—GRANGEGORMAN M.H.B. (a) Supply to St. Ita's Hospital, Portrane, Co. Dublin, of two steam boilers with ancillary equipment for Grangegorman Mental Hospital Board. (b) Messrs. J. A. Kenny & Partners, 44 Kildare Street, Dublin. (c) 10gn. (e) April 10.

* * *

EIRE—LIMERICK. (a) Erection of a new three-storey dormitory block, together with sundry alterations to the existing Chapel at Our Lady of Perpetual Succour Retreat House, Limerick, for Very Reverend Father Curren, C.S.S.R. Provincial. Redemptorist Fathers. (b) John C. Thompson, 65 O'Connell Street, Limerick. (c) 10gn. (e) March 27.

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EDINBURGH, 2: 2 North West Circus Place, Tel. Caledonian 2095
BIRMINGHAM, 20: Henley Lodge, 19 Church Lane, Handsworth Wood. Tel. Northern 0284

EIRE—LIMERICK. (a) Proposed alterations and additions to Saint Philomena's School, South Circular Road, Limerick. (b) Chevalier Patrick J. Sheehan, 47 O'Connell Street, Limerick. (c) £15. (e) April 10.

* * *

EIRE—OFFALY C.C. (a) Erection of 18 cottages in Edenderry, together with fencing and other incidental works, for Offaly County Council. (b) County Secretary, Court House, Tullamore. (c) £5. (e) April 10.

* * *

GREAT HARWOOD U.C. (a) Eight single person bungalows at Park Road, Great Harwood. (b) Messrs. Grimshaw & Townsend, Willow Street, Accrington. (c) 2gn. (e) April 30.

* * *

HARTISMERE R.C. (a) Occold, Phase 1 (i) drainage to ten existing houses, (ii) two pairs of houses, layby and public footpaths, (iii) sewage disposal scheme, together with layby and driveway to sewage plant, and (iv) one block of two lock-up garages; Mendlesham Street, Phase 10: two pairs of houses and extension of existing public road and water main. (b) Council's Engineer and Surveyor, Lambseth Street, Eye, Suffolk. (c) 2gn each contract. (e) April 14.

* * *

HAVERFORDWEST R.C. (a) Fixed price tenders for (i) one pair of houses and site works at Scleddau No. 3 housing site; (ii) four bungalows and site works at Rosemarket No. 5 housing site; (iii) ten garages and site works at Glebelands, Johnston, and (iv) five garages and site works at Langford Close, Johnston. (b) Building Surveyor, Council Offices, Picton Place, Haverfordwest, Pembs. (e) April 10.

* * *

IPSWICH B.C. (a) Erection of temporary classrooms at Northgate grammar schools, Ipswich. (b) Messrs. Johns, Slater & Haward, 32 Foundation Street, Ipswich, by April 3. (c) 2gn. (e) April 10.

* * *

N. IRELAND—BELFAST. (a) College of Technology extensions at Millfield, comprising erection and completion on existing piled foundation and ground-floor slab of the entire multi-storey and single-storey superstructure and completion of site pavings and fencing on prepared ground. (b) Education Architect's Department, 40 Academy Street, Belfast. (c) £5 (cheques payable to Belfast Corporation). (e) May 20.

* * *

N. IRELAND—MINISTRY OF FINANCE. (a) Construction of extension to sorting office and ancillary works at Post Office, Main Street, Limavady. (b) Room 103, Law Courts Building, Belfast. (c) £2. (e) April 13.

* * *

N. IRELAND—MINISTRY OF FINANCE. (a) Erection of Ministry of Labour Local Office at Crossgar Road, Ballynahinch. (b) Room 103, Law Courts Building, Belfast. (c) £2. (e) April 16.

OLDHAM B.C. (a) Fixed price tenders for the erection of 24 flats on the Alt estate. (b) Messrs. Cameron & Middleton, 21 Queen Street, Oldham. (c) 2gn (cheques payable to Borough Treasurer, Oldham Corporation). (e) April 13.

* * *

REDDITCH U.C. (a) Erection of buildings to house refuse handling and composting plant at Ipsley sewage works, Studley Road, Redditch. (b) Engineer and Surveyor, Council House, Redditch, Worcestershire. (c) 3gn. (e) April 20.

* * *

SCARBOROUGH B.C. (a) Erection of crematorium at Woodlands, Scarborough, on fixed price basis. (b) Borough Engineer, Town Hall, Scarborough. (c) 2gn. (e) April 17.

* * *

SCOTLAND. (a) All or separate trades for the erection of Grimshader new school and schoolhouse, eight miles by road from Stornoway in the Isle of Lewis. (b) Messrs. R. Armour & Partners, 166 Union Street, Aberdeen. (e) April 11.

* * *

SCOTLAND—INVERURIE CORPORATION. (a) Several trades for one block of six three-apartment houses at Elphinstone Road, Port Elphinstone. (b) Burgh Surveyor, Town Hall, Inverurie, Aberdeens. (e) April 24.

* * *

SCOTLAND—WEST LOTHIAN C.C. (a) All or separate trades in connection with Blackburn R.C. primary school, Stage 11 Development. (b) County Architect, County Buildings, Linlithgow, in writing. (e) April 4.

* * *

SITTINGBOURNE AND MILTON U.C. (a) Fixed price tenders for the erection of 88 houses on Canterbury Road housing estate, Plot 15. (b) Engineer and Surveyor, "Lydbrook", 89 London Road, Sittingbourne. (c) 3gn. (e) April 13.

* * *

SOUTHAMPTON B.C. (a) Erection, at Western Esplanade, Southampton, of new swimming baths, comprising two pools, seating for 900 spectators, 30 slipper baths, changing and other ancillary accommodation. (b) Borough Architect, Civic Centre, Southampton, in writing by April 6. (e) June 1.

* * *

WALLASEY B.C. (a) Carrying out extensive alterations and extensions at Wallasey Technical College, the construction of a three-storey science block, extensions to a workshop block, together with other ancillary works, including paths, roads, drainage, etc. (b) Borough Architect, Town Hall, Wallasey, immediately.

* * *

WALLASEY B.C. (a) Provision of changing room accommodation at Wallasey grammar school playing fields, Twickenham Drive, Leasowe. (b) Borough Architect, Town Hall, Wallasey. (e) April 13.

* * *

WARWICK B.C. (a) One two-storey block comprising two single-bedroom flats at Kipling Avenue. (b) Borough Engineer and Surveyor, 23 Jury Street, Warwick. (c) 2gn. (e) April 20.

* * *

WEST RIDING STANDING JOINT COMMITTEE. (a) Formation of a third court on the first floor of the Divisional Police Headquarters and Court House, Moorgate, Rotherham. (b) Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by April 24. (e) May 8.

* * *

WEST SUSSEX C.C. (a) Fixed price tenders for the erection of a three-storey extension to north-east wing of County Hall, Chichester, and erection of canteen kitchen and dining room (Job No. 4015). (b) County Architect, County Hall, Chichester, by April 7. Quantities will be issued on or about June 3.

* * *

ULSTER—BALLYMENA R.D.C. (a) Supply and installation of electric sewage pumps, together with associated pipework and wiring in each of two pumping stations forming part of the Galgorm/Gracehill Sewage Scheme for Ballymena Rural District Council. (b) E. Hollinger, Clerk of Council, Rural Council Offices, Cushendall Road, Ballymena. (c) 5gn. (e) April 3.

* * *

ULSTER—CITY OF BELFAST. (a) Erection and completion of nine dwellings at Avoniel Road/Ravenscroft Avenue for Belfast Corporation. (b) Housing Architect's Department, Townsend House, 97 Townsend Street, Belfast. (c) £5 (cheque to be made payable to Belfast Corporation). (e) April 7.

* * *

ULSTER—MINISTRY OF FINANCE. (a) Construction, etc., of alterations, etc., to Courthouse, Omagh, Co. Tyrone. (b) Room 103, Law Courts Building, Belfast. (c) £5. (e) April 2.

* * *

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ASHTON-UNDER-LYNE B.C. (1) 106 houses. (2) Lords Field estate. (3) Corporation Works Department. (4) £150,000.

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HARLOW DEVELOPMENT CORPORATION. (1) 354 dwellings. (2) Area 60. (3) Rush and Tompkins Ltd., Station Road, Sidcup, Kent. (4) £471,740. (1) 100 houses. (2) Area 61. (3) Geo. Wimpey & Co. Ltd., Hammersmith Grove, London, W.6. (4) £161,000. (1) 16 flats. (2) Long Field. (3) W. & C. French Ltd., Buckhurst Hill, Essex. (4) £29,750. (1) 16 flats. (2) Nicholl Field. (3) W. & C. French Ltd. (4) £26,778.

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SEATON VALLEY U.D.C. (1) 106 houses. (2) Seaton, Delavel and Cramlington. (3) John Twinane Ltd., Allerdale House, Brigham, Cockermouth.

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CARDIFF C.C. (1) Secondary school. (2) Ty Celyn. (3) District Labour. (4) £185,958.

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KENSINGTON B.C. (1) 156 flats. (2) Kensall New Town. (3) Unit Construction Co. Ltd., 34 St. James's Street, London, S.W.1. (4) £380,794.

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BIRMINGHAM UNIVERSITY. (1) Research laboratories. (3) W. Sapcote & Sons Ltd., 67 Camden Street, Birmingham, 1. (4) £42,500.

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LONDON W.C. (1) Shops and offices. (2) Embankment Place. (3) A. Roberts & Co. Ltd., 79 Eccleston Square, London, S.W.1. (4) £80,000.

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SOUTHAMPTON B.C. (1) Girls' school. (2) Glen Eyre. (3) W. T. Nicholls (Southern) Ltd., Tennyson Road, Southampton. (4) £184,949.

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PLYMOUTH C.C. (1) 100 houses. (2) Southway. (3) Sellect Nicholls & Co. Ltd., East Hill, St. Austell, Cornwall. (4) £134,177.

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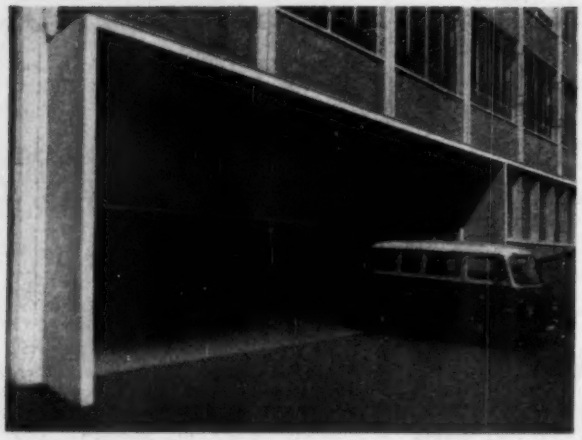
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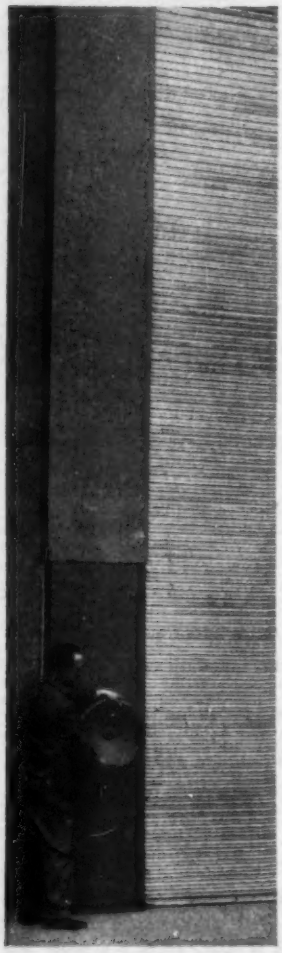
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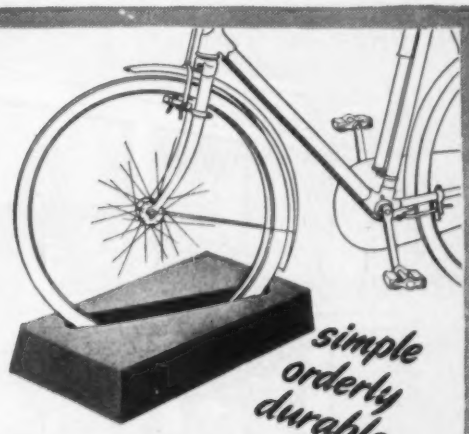
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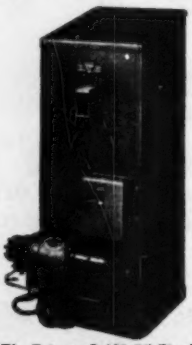
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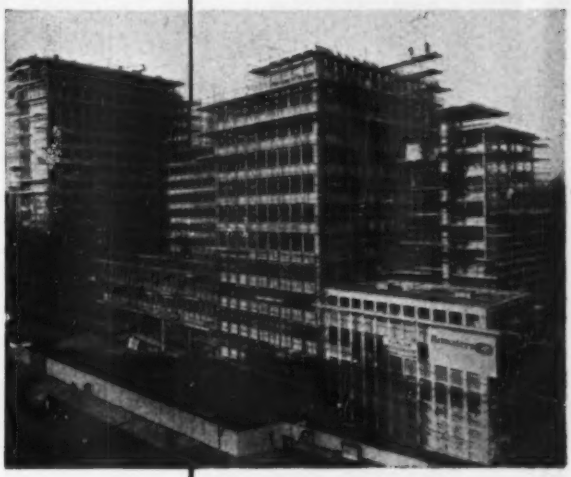
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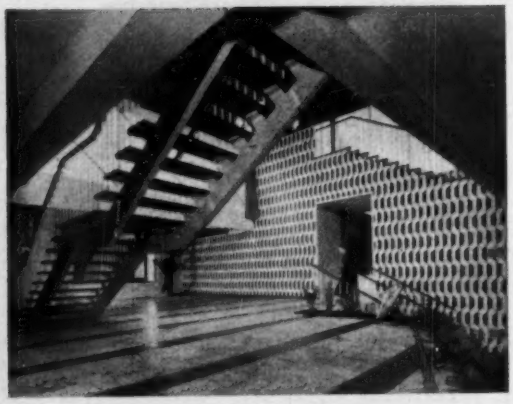
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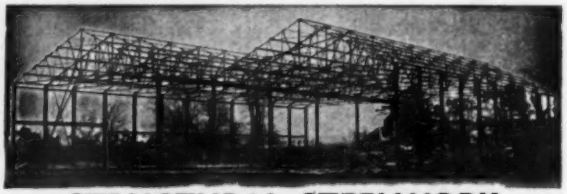
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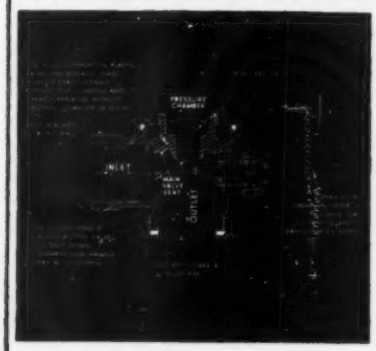
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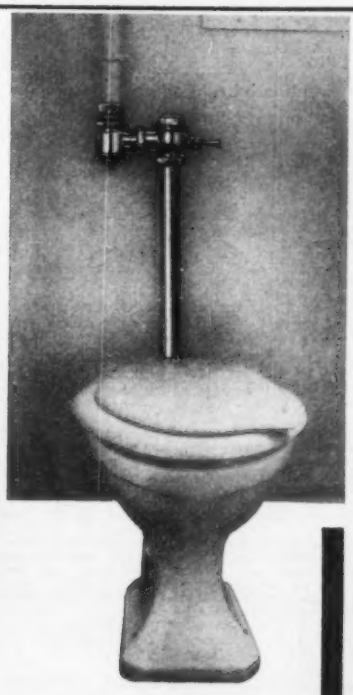
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D. G. FARROW,
Chief Education Officer.

22 Euston Road,
Great Yarmouth. [4985

Borough of Enfield
Borough Engineer's Department

APPLICATIONS are invited for established posts within the Grades shown:

(a) **Architectural Assistant,** APT I and II (£575/£845 per annum).

(b) **Architectural Assistant (Maintenance),** APT I (£575/£725 per annum).

A London Weighting allowance of £10/£30 per annum, according to age, will be paid in addition to the above salaries. The commencing salary will be in accordance with qualifications and experience.

Saturday mornings are normally free of duty.

Application forms, returnable by April 8, 1959, to be obtained from H. Deryck Peake, M.Sc.(Eng.), M.I.C.E., "Percy House," 7 Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN, LL.B.,
Town Clerk.

Public Offices,
Enfield, Middx. [4981

County Borough of Bury

APPLICATIONS invited for appointment of Architectural Assistant, Special Grade (£750/£1,030). Commencing salary according to qualifications and experience.

Applications stating age, details of training, qualifications, present and previous appointments and experience, together with names and addresses of two referees, must reach me by April 13, 1939.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury. [4979

London County Council
ARCHITECTS Grade III

REQUIRED for housing, schools and general divisions. Full and varied programme of new work including schools, multi-storey flats and town development. Up to £1,090 according to qualifications and experience. Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/25/29, County Hall, S.E.1. (441) [0204

AIR Ministry Works, Design Branch, requires in London and Provinces, Architectural Assistants experienced in planning/preparation of working drawings and details for permanent and semi-permanent buildings. Salaries in London up to £1,055 p.a. for men and £1,008 p.a. for women. Somewhat lower in provinces. Starting pay dependent on age, qualifications and experience. Long-term possibilities with promotion and pensionable prospects. Five-day week, three weeks three days leave a year. Liability for overseas service (for men). Normally natural born British subjects. Write stating age, qualifications, employment details, including type of work done, to any Employment Exchange, quoting Order No. Borough 250. [0844

APPOINTMENTS (cont)

West Sussex County Council
County Architect's Department

APPLICATIONS are invited for the following appointment:

Assistant Architect, at a salary in accordance with the Special Grade of the National Scale of Salaries, £750 x £40—£1,030. Commencing salary according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted, not later than April 13, 1959.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
March 19, 1959. [5004

County Borough of East Ham
PRINCIPAL ASSISTANT PLANNING OFFICER
Grade APT III (£845/£1,025)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date April 17, 1959. [5008

Consett Urban District Council
APPOINTMENT OF
ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above permanent appointment in the Surveyor's Department at a salary in accordance with APT Grade II (£725/£845 per annum).

Candidates should hold a recognized architectural qualification and should have had experience in housing work with a Local Authority.

The appointment will be subject to the National Conditions, the provisions of the Local Government Superannuation Acts, one month's notice on either side and the passing of a medical examination. The Council will assist the successful applicant in obtaining housing accommodation if required.

Applications in envelopes endorsed "Architectural Assistant", giving details of age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, are to be addressed and delivered to the undersigned not later than Saturday, April 18, 1959.

Candidates must declare their relationship, if any, with any member or senior official of the Council.

J. QUINN,
Clerk of the Council.

Council Offices,
Medomsley Road,
Consett,
Co. Durham.
March 23, 1959. [5009

City of Sheffield
City Architect's Department

ENTHUSIASTIC young architect required urgently to assist with a major redevelopment scheme for a large Training College. The whole project costing £750,000, comprises multi-storey residential hostels, with assembly hall, dining rooms and recreational facilities, together with improvements to existing teaching accommodation.

Salary according to experience within the Special Classes Grade—£750 to £1,030 per annum.

Applications, stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made, should reach me not later than Monday, April 13, 1959.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1. [4995

Flintshire County Council

APPLICATIONS are invited for a Quantity Surveyor (Senior). Candidates should be associates of R.I.C.S. with four years' practical experience as Quantity Surveyor since passing final examination. Salary APT/IV, £1,025/£1,175 per annum. Form of application from Clerk of County Council, County Buildings (P.O. Box No. 1), Mold. Closing date April 13, 1959. [5002

APPOINTMENTS (cont)

The South Wales Electricity Board
SENIOR ARCHITECTURAL DRAUGHTSMAN

OUR Architectural Section does a large, varied and interesting range of work.

It is situated in a locality which is rural, yet only five miles from the City of Cardiff.

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The salary will be £790/£890 and applications to our Personnel Officer at St. Mellons, Cardiff, will receive careful and prompt consideration.

(Closing date for applications, Saturday, April 18, 1959.) [4996

Metropolitan Borough of Hampstead

REQUIRE the following staff in the Housing Architect's Department:

1. **Architectural Assistant** (temporary) Grades APT I/II, Intermediate R.I.B.A. (£575/£845); Special Grade, Final R.I.B.A. (£750/£1,030); plus London area weighting.

2. **Junior Architectural Assistant** (temporary) Grade General Division Q (£230/£700 plus London weighting). Commencing salary according to qualifications and experience.

Successful candidates will be required to work in one of two teams engaged in the conversion of property, area redevelopment and the design and construction of new flats and houses. Applications giving age, training, experience, previous appointments and the names of three referees, to the Town Clerk (A.B.), Town Hall, Haverstock Hill, N.W.3, by April 21, 1959. No housing provided. [4999

County Borough of Newport

APPLICATIONS invited for following established posts:

(i) Three **Assistant Architects,** Special Scale (£750/£1,030 p.a.).

(ii) Two **Architectural Assistants,** Grade APT I (£575/£725 p.a.).

(iii) One **Assistant Quantity Surveyor,** Grade APT IV (£1,025/£1,175 p.a.).

(iv) One **Assistant Quantity Surveyor,** Special Grade (£750/£1,030 p.a.).

(v) One **Assistant Heating Engineer,** Grade APT III (£845/£1,025 p.a.).

Salary for each appointment to commence at any point in scale according to ability and experience.

Minimum qualifications required for posts (i) final examination R.I.B.A.; for posts (ii) intermediate R.I.B.A.; for posts (iii) and (iv) final examination R.I.C.S.; and for post (v) intermediate of appropriate professional examination.

Housing accommodation will be made available according to circumstances. Application forms from Borough Architect, Civic Centre, Newport, Mon, returnable by Wednesday, April 8, 1959. [5003

Littlewoods Mail Order Stores Ltd.
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ARCHITECTURAL ASSISTANTS
for their Construction Department

THIS progressive and expanding company is undertaking an extensive building development programme and a variety of interesting projects are in progress throughout the British Isles. The vacancies should appeal particularly to young men who have just become Associates of the R.I.B.A. or have reached Inter R.I.B.A. standard. They will be given every encouragement to excercise initiative and acquire wider experience in a well-established department. Generous starting salaries. Staff Life Assurance and Pension Scheme. Five-day week. Applications in writing should be addressed to: Employment Manager (Ref. AA/81/ABN), Littlewoods Mail Order Stores Ltd., Spinney House, Church Street, Liverpool X. [5006

Beeston and Stapleford Urban District Council
ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment, in Grade II (£725/£845) or Special Grade (£750/£1,030), the grade and commencing salary to be according to applicant's qualifications and experience.

Applications, accompanied by the names and addresses of two referees, should be forwarded to the Housing Architect, Town Hall, Beeston, Nottingham, not later than April 30, 1959.

H. D. JEFFRIES,
Clerk of the Council.

[5015

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Technical Library (Buildings),
Ministry of Works,
Private Bag,
Nairobi,
Kenya Colony. [5005

ARCHITECTURAL APPOINTMENTS VACANT

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ARCHITECT. Wanted Junior Assistant, Bournemouth office. Intermediate Standard. State experience, salary required. Box 2479. [4948

ARCHITECTURAL firm in Home Counties with varied practice, require Assistants. Intermediate, Qualified, or at that standard. State experience and salary required to Box 1979. [0136

ARCHITECTURAL ASSISTANTS of Senior and Intermediate standard are required in the offices of Sir Percy Thomas & Son. The programme of work is varied, hospitals, universities, schools and industrial works being predominant. Applicants should have experience in contemporary design and construction. Salary and annual bonus is dependent upon experience and ability. Holiday arrangements—three weeks per annum and every third Saturday morning free. Pension scheme open to Senior permanent staff. Applications, stating age, experience, etc., should be made in writing to The Secretary, 10 Cathedral Road, Cardiff. [5000

ARCHITECTS' CO-PARTNERSHIP require Assistants for working drawings and detailed design. Salary according to experience. Write 44 Charlotte Street, London, W.1, or telephone Langham 5791. [0203

ASSISTANT, Intermediate standard or above, required for branch office at Beaconsfield, Bucks. C. B. Martindale, F.R.I.B.A., Cathedral Chambers, Castle Street, Carlisle. [5007

CAPABLE Assistant required for varied practice, Bedfordshire. Scope for responsibility. Salary range from £500 to £700 according to ability. Box 2784. [5017

CAPABLE Architectural Assistants (all Grades) required in a modern office in Hemel Hempstead. Interesting and varied work ranging from domestic design to nuclear power station projects. State age, training, qualifications and/or experience. Maurice H. J. Bebb, L.R.I.B.A., 16-19 Gresse Street, London, W.1. [4958

KUMASI COLLEGE OF TECHNOLOGY, Kumasi, Ghana, require Temporary Architectural Staff at their London office for about nine months to prepare contract drawings for a large building programme in Ghana. Applications are invited from qualified architects and architectural assistants. Further details may be obtained from the London offiee of Kumasi College of Technology, at 29 Tavistock Square, London, W.C.1, to whom applications should be sent as soon as possible. [5018

HELLBERG & HARRIS, F./F.R.I.B.A., require assistant architect, qualified or near final standard for their Coventry office. Five-day week, pension scheme. Write, giving particulars of training, experience and salary required to 13 Queen Victoria Road, Coventry. [5001

NEWMAN, LEVINSON & PARTNERS require qualified and Intermediate Architectural Assistants, with a minimum of three years office experience in commercial work. Write or telephone 9 Mansfield Street, London, W.1 (LANgham 9251. [5013

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(b) Architectural Assistant for the preparation of working drawings and surveys. Intermediate R.I.B.A. standard. Initial engagement for one year contract with possibility of renewal.

Write stating qualifications, experience and salary required to De Vaux House, Salisbury. [5010

TAYLOR WOODROW require two Assistant Architects, capable of producing working drawings and details. Age immaterial if experienced. Good salary. Please write Personnel Manager, Taylor Woodrow Services Ltd., Western House, Western Avenue, Ealing, W.5. [5016

TWO ARCHITECTURAL ASSISTANTS required for very large scheme. Considerable office experience is essential. Office West End. Good Salary and bonus.—Box 2738. [4998

YOUNG DRAUGHTSMAN required by Ian Hamilton and Alan Chalmers, F./F.R.I.B.A., 16 Old Buildings, Lincolns Inn, W.C.2. Salary by arrangement. [4997

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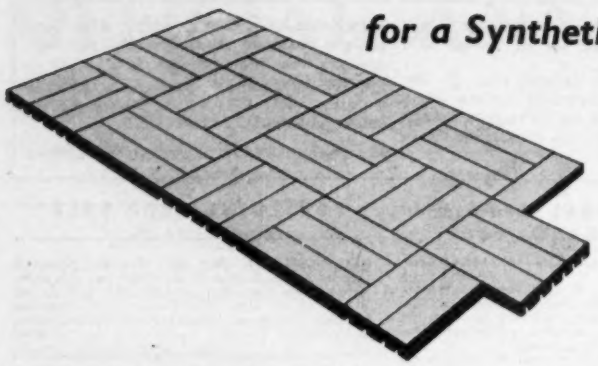
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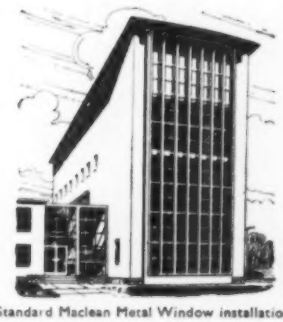
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